

1957

Bryn Mawr College College Catalogue and Calendar, 1957-1958

Bryn Mawr College

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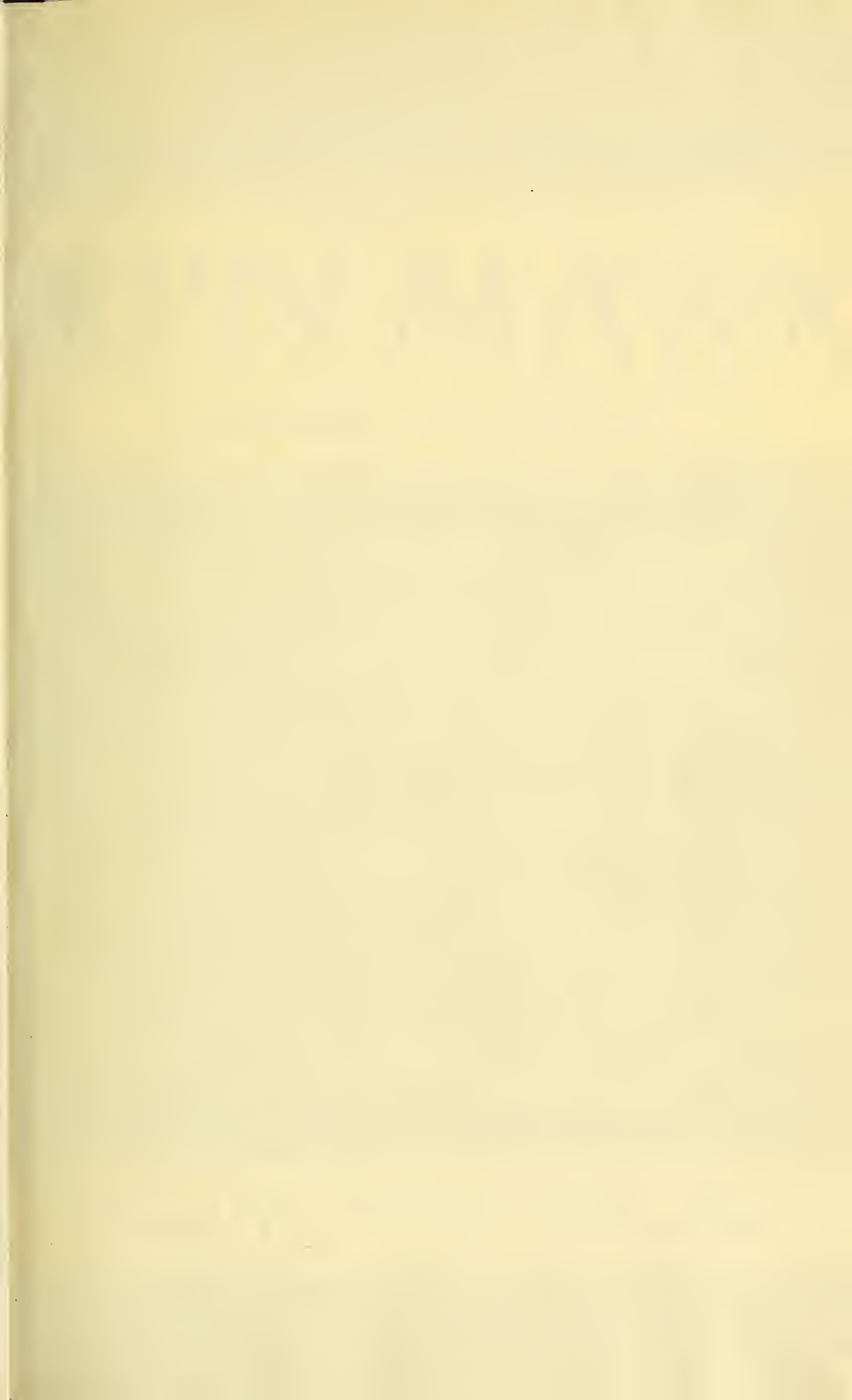
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College
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BRYN MAWR

COLLEGE CALENDAR

GRADUATE COURSES 1957-1958



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Bryn Mawr College Calendar

GRADUATE COURSES

ISSUE FOR THE SESSION OF

1957 • 1958

JULY 1957

Volume L

Number 2

Archives
11A
1957-58
cop. 2

College Calendar

1957-1958

FIRST SEMESTER

1957

September 28. Graduate Center open to new graduate students at 9 A. M.

Registration period for graduate students begins

September 29. Halls of residence open to all returning graduate and undergraduate students at 8 P.M.

October 1. The 73rd academic year begins at 8:45 A.M.

October 5. Registration period for graduate students ends

October 19. French examinations for undergraduates, M.A. and Ph.D. candidates

October 26. Spanish and Italian examinations for undergraduates, M.A. and Ph.D. candidates

Statistics examinations for M.A. candidates

November 2. German examinations for undergraduates, M.A. and Ph.D. candidates

November 9. Russian examinations for undergraduates, M.A. and Ph.D. candidates

November 27. Thanksgiving holiday begins after last class

December 2. Thanksgiving holiday ends at 9 A.M.

December 20. Christmas vacation begins at 12:45 P.M.

1958

January 6. Christmas vacation ends at 9 A.M.

January 11. French examinations for Seniors conditioned, M.A. and Ph.D. candidates

January 17. Last day of lectures

BRYN MAWR COLLEGE CALENDAR. Published December, July, August and November by Bryn Mawr College, Bryn Mawr, Pa.

Entered as second-class matter, May 28, 1940, at the post office, Bryn Mawr, Pennsylvania, under the Act of August 24, 1912

January 18. Spanish and Italian examinations for Seniors conditioned, M.A. and Ph.D. candidates

Statistics examinations for M.A. candidates

January 20. Collegiate examinations begin

January 25. German and Russian examinations for Seniors conditioned, M.A. and Ph.D. candidates

January 29. Registration period for graduate students begins

January 31. Collegiate examinations end

SECOND SEMESTER

February 3. Work of the second semester begins at 9 A.M.

February 8. Registration period for graduate students ends

March 28. Spring vacation begins after last class

April 8. Spring vacation ends at 9 A.M.

April 10. Ph.D. dissertations in all fields except experimental science and mathematics must be submitted to Graduate School office

April 12. French examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1959

April 19. Spanish and Italian examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1959

April 26. German examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1959

May 1. Ph.D. dissertations in experimental science and mathematics must be submitted to Graduate School office

May 3. Statistics examinations for M.A. candidates for 1959

May 10. Russian examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1959

May 16. Last day of lectures

May 19. Collegiate examinations begin

May 30. Collegiate examinations end

June 3. Conferring of degrees and close of the 73rd academic year

1957							1958														1959						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
JULY							JANUARY							JULY							JANUARY						
..	1	2	3	4	5	6	..	..	1	2	3	4	5	..	..	1	2	3	4	5	..	..	..	1	2	3	..
7	8	9	10	11	12	13	5	6	7	8	9	10	11	6	7	8	9	10	11	12	4	5	6	7	8	9	10
14	15	16	17	18	19	20	12	13	14	15	16	17	18	13	14	15	16	17	18	19	11	12	13	14	15	16	17
21	22	23	24	25	26	27	19	20	21	22	23	24	25	20	21	22	23	24	25	26	18	19	20	21	22	23	24
28	29	30	31	..	..	..	26	27	28	29	30	31	..	27	28	29	30	31	..	..	25	26	27	28	29	30	31
AUGUST							FEBRUARY							AUGUST							FEBRUARY						
..	..	..	1	2	3	..	..	..	..	..	..	1	..	..	..	..	1	2	..	..	1	2	3	4	5	6	7
4	5	6	7	8	9	10	2	3	4	5	6	7	8	3	4	5	6	7	8	9	8	9	10	11	12	13	14
11	12	13	14	15	16	17	9	10	11	12	13	14	15	10	11	12	13	14	15	16	15	16	17	18	19	20	21
18	19	20	21	22	23	24	16	17	18	19	20	21	22	17	18	19	20	21	22	23	22	23	24	25	26	27	28
25	26	27	28	29	30	31	23	24	25	26	27	28	..	24	25	26	27	28	29	30	31	..	..	..	..	..	..
SEPTEMBER							MARCH							SEPTEMBER							MARCH						
1	2	3	4	5	6	7	..	..	..	..	..	1	..	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	2	3	4	5	6	7	8	7	8	9	10	11	12	13	8	9	10	11	12	13	14
15	16	17	18	19	20	21	9	10	11	12	13	14	15	14	15	16	17	18	19	20	15	16	17	18	19	20	21
22	23	24	25	26	27	28	16	17	18	19	20	21	22	21	22	23	24	25	26	27	22	23	24	25	26	27	28
29	30	..	..	..	..	..	23	24	25	26	27	28	29	28	29	30	..	..	..	..	29	30	31	..	..	..	..
OCTOBER							APRIL							OCTOBER							APRIL						
..	..	1	2	3	4	5	..	..	1	2	3	4	5	..	..	1	2	3	4	..	..	..	1	2	3	4	..
6	7	8	9	10	11	12	6	7	8	9	10	11	12	5	6	7	8	9	10	11	5	6	7	8	9	10	11
13	14	15	16	17	18	19	13	14	15	16	17	18	19	12	13	14	15	16	17	18	12	13	14	15	16	17	18
20	21	22	23	24	25	26	20	21	22	23	24	25	26	19	20	21	22	23	24	25	19	20	21	22	23	24	25
27	28	29	30	31	..	..	27	28	29	30	..	..	..	26	27	28	29	30	31	..	26	27	28	29	30	..	..
NOVEMBER							MAY							NOVEMBER							MAY						
..	..	..	..	1	2	..	..	..	..	1	2	3	..	..	..	..	..	1	..	..	..	..	..	..	1	2	..
3	4	5	6	7	8	9	4	5	6	7	8	9	10	2	3	4	5	6	7	8	3	4	5	6	7	8	9
10	11	12	13	14	15	16	11	12	13	14	15	16	17	9	10	11	12	13	14	15	10	11	12	13	14	15	16
17	18	19	20	21	22	23	18	19	20	21	22	23	24	16	17	18	19	20	21	22	17	18	19	20	21	22	23
24	25	26	27	28	29	30	25	26	27	28	29	30	31	23	24	25	26	27	28	29	24	25	26	27	28	29	30
DECEMBER							JUNE							DECEMBER							JUNE						
1	2	3	4	5	6	7	1	2	3	4	5	6	7	..	1	2	3	4	5	6	..	1	2	3	4	5	6
8	9	10	11	12	13	14	8	9	10	11	12	13	14	7	8	9	10	11	12	13	7	8	9	10	11	12	13
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22	23	24	25	26	27	28	22	23	24	25	26	27	28	21	22	23	24	25	26	27	21	22	23	24	25	26	27
29	30	31	29	30	28	29	30	31	28	29	30

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12. Mrs. Francis J. Stokes
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ACADEMIC YEAR, 1957-1958

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ELIZABETH HUMESTON, M.D. (Cornell University), *College Phy-
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HORACE ALWYNE, F.R.M.C.M. (Royal Manchester College of
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RHYS CARPENTER, PH.D. (Columbia University), Litt.D., *Pro-
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REGINA KATHARINE CRANDALL, PH.D. (University of Chicago),
Professor Emeritus of English Composition

GRACE MEAD ANDRUS DE LAGUNA, PH.D. (Cornell University),
Professor Emeritus of Philosophy

MAX DIEZ, PH.D. (University of Texas), *Professor Emeritus of German Literature*

CHARLES GHEQUIERE FENWICK, PH.D. (Johns Hopkins University), LL.D., *Professor Emeritus of Political Science*

GRACE FRANK, A.B. (University of Chicago), *Professor Emeritus of Old French*

HELEN TAFT MANNING, PH.D. (Yale University), LL.D., *Professor Emeritus of History*

CORNELIA LYNDE MEIGS, A.B. (Bryn Mawr College), *Professor Emeritus of English Composition*

MARY HAMILTON SWINDLER, PH.D. (Bryn Mawr College), LL.D., *Professor Emeritus of Classical Archaeology*

ANNA PELL WHEELER, PH.D. (University of Chicago), Sc.D., *Professor Emeritus of Mathematics*

THOMAS ROBERT SHANNON BROUGHTON, PH.D. (Johns Hopkins University), *Professor of Latin, Secretary of the Faculty*

ERNST BERLINER, PH.D. (Harvard University), *Professor of Chemistry*

RICHARD BERNHEIMER, PH.D. (University of Munich), *Professor of History of Art, on joint appointment with Haverford College*

L. JOE BERRY, PH.D. (University of Texas), *Professor of Biology*

ELEANOR A. BLISS, Sc.D. (Johns Hopkins University), Sc.D., *Dean of the Graduate School and Professor of Biology*

SAMUEL CLAGGETT CHEW, PH.D. (Johns Hopkins University), LITT.D., *Professor Emeritus of English Literature and Visiting Professor*

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), *Professor of Education and Psychology*

FREDERICA DE LAGUNA, PH.D. (Columbia University), *Professor of Anthropology*

LINCOLN DRYDEN, PH.D. (Johns Hopkins University), *Professor of Geology*

JOSÉ MARÍA FERRATER MORA, *Licenciado en Filosofía* (University of Barcelona), *Professor of Spanish and Philosophy*¹

MARY SUMMERFIELD GARDINER, PH.D. (Bryn Mawr College),
Professor of Biology

FELIX GILBERT, PH.D. (University of Berlin), *Professor of History*

MARGARET GILMAN, PH.D. (Bryn Mawr College), *Eunice M. Schenck 1907 Professor of French*

STEPHEN JOSEPH HERBEN, B.LITT., PH.D. (Princeton University),
Professor of English Philology

MYRA RICHARDS JESSEN, PH.D. (Bryn Mawr College), *Professor of German*

RICHMOND LATTIMORE, PH.D. (University of Illinois), *Paul Shorey Professor of Greek*

MARGUERITE LEHR, PH.D. (Bryn Mawr College), *Professor of Mathematics*

ANGELINE HELEN LOGRASSO, PH.D. (Radcliffe College), *Professor of Italian*

GEDDES MACGREGOR, B.D., LL.B. (University of Edinburgh),
D.PHIL. (Oxford), *D.ès L.* (University of Paris), F.R.S.L.,
Rufus M. Jones Professor of Philosophy and Religion

BERTHE MARIE MARTI, PH.D. (Bryn Mawr College), *Professor of Latin*

FRITZ MEZGER, PH.D. (University of Berlin), *Professor of Germanic Philology*

AGNES KIRSOPP LAKE MICHELS, PH.D. (Bryn Mawr College),
Professor of Latin

WALTER C. MICHELS, PH.D. (California Institute of Technology),
Marion Reilly Professor of Physics

1. On leave of absence for semester II, 1957-1958.

MILTON CHARLES NAHM, B.LITT., PH.D. (University of Pennsylvania), *Professor of Philosophy*

MILDRED BENEDICT NORTHROP, PH.D. (Columbia University), *Professor of Economics*

JANE MARION OPPENHEIMER, PH.D. (Yale University), *Professor of Biology*

JOHN CORNING OXTOBY, M.A. (University of California), *Professor of Mathematics*

WILLIAM J. ROACH, PH.D. (University of Chicago), *Visiting Professor of Old French*

CAROLINE ROBBINS, PH.D. (University of London), *Professor of History*¹

PAUL SCHRECKER, PH.D. (University of Berlin), LL.D., *Visiting Professor of Philosophy*

JOSEPH CURTIS SLOANE, M.F.A., PH.D. (Princeton University), *Professor of History of Art*

ALEXANDER COBURN SOPER, III, M.F.A., PH.D. (Princeton University), *Professor of History of Art*¹

ARTHUR COLBY SPRAGUE, PH.D. (Harvard University), *Mary E. Garrett Alumnae Professor of English Literature*

K. LAURENCE STAPLETON, A.B. (Smith College), *Professor of English and of Political Theory*

ISABEL SCRIBNER STEARNS, PH.D. (Bryn Mawr College), *Professor of Philosophy*

LILY ROSS TAYLOR, PH.D. (Bryn Mawr College), LITT.D., *Professor Emeritus of Latin and Visiting Professor*

EDWARD H. WATSON, PH.D. (Johns Hopkins University), *Professor of Geology*

ROGER HEWES WELLS, PH.D. (Harvard University), *Professor of Political Science*

1. On leave of absence for semester II, 1957-1958.

MARY KATHARINE WOODWORTH, PH.D. (Bryn Mawr College),
Professor of English

DOROTHY WYCKOFF, PH.D. (Bryn Mawr College), *Professor of
Geology*

JOSHUA C. HUBBARD, PH.D. (Harvard University), *Associate Pro-
fessor and Professor-elect of Economics*

BETTINA LINN, M.A. (Bryn Mawr College), *Margaret Kingsland
Haskell Associate Professor and Professor-elect of English*

KATHERINE D. K. LOWER, PH.D. (University of Wisconsin), *Asso-
ciate Professor and Professor-elect of Social Work and Social
Research*

PETER BACHRACH, PH.D. (Harvard University), *Associate Profes-
sor of Political Science*¹

FRANCES DE GRAAFF, PH.D. (University of Leyden), *Associate
Professor of Russian, on joint appointment with Haverford
College*

ARTHUR P. DUDDEN, PH.D. (University of Michigan), *Associate
Professor of History*

ROBERT L. GOODALE, A.B., B.MUS. (Yale University), A.A.G.O.,
Associate Professor of Music

ROSALIE C. HOYT, PH.D. (Bryn Mawr College), *Associate Pro-
fessor of Physics*

HERTHA KRAUS, PH.D. (University of Frankfurt), *Carola Woeri-
shoffer Associate Professor of Social Work*

HAROLD WILLIAM KUHN, PH.D. (Princeton University), *Associate
Professor of Mathematics*

MABEL LOUISE LANG, PH.D. (Bryn Mawr College), *Associate Pro-
fessor of Greek*

HUGUES LEBLANC, PH.D. (Harvard University), *Associate Pro-
fessor of Philosophy*

GERTRUDE C. K. LEIGHTON, A.B. (Bryn Mawr College), LL.B.
(Yale University), *Associate Professor of Political Science*¹

1. On sabbatical leave for the year 1957-1958.

JUAN MARICHAL, PH.D. (Princeton University), *Associate Professor of Spanish*

MACHTELD JOHANNA MELLINK, PH.D. (University of Utrecht), *Associate Professor of Classical Archaeology*

JOHN R. PRUETT, PH.D. (Indiana University), *Associate Professor of Physics*

EUGENE V. SCHNEIDER, PH.D. (Harvard University), *Associate Professor of Sociology*

JOACHIM H. SEYPPPEL, PH.D. (University of Rostock), *Associate Professor of German*

MARY MARGARET ZENDER, M.A. (Lawrence College), M.S.S., (Smith College), *Associate Professor of Social Work*

GEORGE L. ZIMMERMAN, PH.D. (University of Chicago), *Associate Professor of Chemistry*¹

MORTON SACHS BARATZ, PH.D. (Yale University), *Associate Professor-elect of Economics*

WARNER B. BERTHOFF, PH.D. (Harvard University), *Assistant Professor and Associate Professor-elect of English*¹

MORTON EDWARD BITTERMAN, PH.D. (Cornell University), *Associate Professor-elect of Psychology*

DONALD R. BROWN, PH.D. (University of California), *Assistant Professor and Associate Professor-elect of Psychology*¹

ROBERT S. DAVIDON, PH.D. (University of Pennsylvania), *Assistant Professor and Associate Professor-elect of Psychology*

FRANCES BONDHUS BERLINER, PH.D. (Bryn Mawr College), *Assistant Professor of Chemistry*²

ROBERT L. CONNER, PH.D. (Indiana University), *Assistant Professor of Biology, on joint appointment with Haverford College*

1. On sabbatical leave for the year 1957-1958.

2. On leave of absence for the year 1957-1958.

- MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*
- DAVID B. GREEN, PH.D. (Harvard University), *Assistant Professor of English*
- DAVID JOSEPH HERLIHY, PH.D. (Yale University), *Assistant Professor of History*
- EDITH HAMILTON LANMAN, M.A. (University of California), *Assistant Professor of Chemistry*
- ISABEL GAMBLE MACCAFFREY, PH.D. (Radcliffe College), *Assistant Professor of English*
- MARIO MAURIN, PH.D. (Yale University), *Assistant Professor of French*
- ROBERT A. RUPEN, PH.D. (University of Washington), *Assistant Professor of Political Science*
- RAYMOND F. BETTS, D.d'Univ. (University of Grenoble), *Instructor and Assistant Professor-elect of History on the Eloise Ruthven Tremain Memorial Fund*
- ROBERT HAWES BUTMAN, M.A. (University of North Carolina), *Instructor and Assistant Professor-elect of English on the Theresa Helburn Fund, and on joint appointment with Haverford College*
- ALEXANDER CAMBITOGLU, PH.D. (University of London), *Assistant Professor-elect of Classical Archaeology*
- MICHEL GUGGENHEIM, PH.D. (Yale University), *Assistant Professor-elect of French*
- SYLVIA KENNEY, PH.D. (Yale University), *Assistant Professor-elect of Music*
- FRANK BRYANT MALLORY, A.B. (Yale University), *Assistant Professor-elect of Chemistry*
- MANUEL ASENSIO, PH.D. (University of Pennsylvania), *Visiting Lecturer in Spanish*
- HELEN J. DOW, PH.D. (Bryn Mawr College), *Lecturer in History of Art*
- MURIEL JANET GAYFORD, M.S.P.A. (Washington University), *Lecturer in Medical Social Case Work*

CLAUDIO GUILLÉN, PH.D. (Harvard University), *Visiting Lecturer in Spanish*

EDWARD B. HARPER, A.B. (Reed College), *Part-time Lecturer in Sociology and Anthropology*

DEMETRIUS IATRIDIS, PH.D. (Bryn Mawr College), *Visiting Lecturer in Social Work and Social Research*

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JOSEPH VARIMBI, PH.D. (University of Pennsylvania), *Lecturer in Chemistry*

JEANNE L. WERTZ, PH.D. (University of Pennsylvania), *Part-time Lecturer in Social Research*

MAXINE WOOLSTON, PH.D. (Radcliffe College), *Lecturer in Economics*

BARBARA CROSS, PH.D. (Radcliffe College), *Instructor in English*

HOPE K. GOODALE, M.A. (Bryn Mawr College), *Part-time Instructor in Spanish*

PHILIP KOCH, PH.D. (Harvard University), *Instructor in French*

RAMONA T. LIVINGSTON, A.B. (William Jewell College), *Instructor in English*

SOLEDAD MARICHAL, M.A. (University of Puerto Rico), *Part-time Instructor in Spanish*

MARIE MORISAWA, M.A. (Wyoming University), *Instructor in Geology*

MARGARET C. PEARCE, B.S. (University of Minnesota), *Part-time Instructor in English*

- HERTA STEPHENSON (University of Lausanne), *Part-time Instructor in German*
- LISE WERTHEIMER, A.B. (Swarthmore College), *Instructor in Psychology*
- MARILYN DENTON, M.A. (University of Wisconsin), *Instructor-elect in English*
- LOUISE HARNED, PH.D. (Yale University), *Instructor-elect in Political Science*
- ROBERT A. WALLACE, B.A. (Harvard University), *Instructor-elect in English*
- FRITZ JANSCHKA, *Akademischer Maler* (Akademie der Bildenden Künste), *Artist in Residence*
- HENRIETTA HUFF LANDES, A.B. (Bryn Mawr College), *Curator of Slides and Photographs*
- WILLIAM H. REESE, PH.D. IN MUSIC (University of Berlin), *Director of Orchestra*
- ELIZABETH BOOTH, M.A. (Bryn Mawr College), *Part-time Assistant in Music*
- JEANNE DEBOW BRUGGER, M.A. (Smith College), *Part-time Assistant in Psychology*
- ANNA CHAO, A.B. (Sweet Briar College), *Part-time Demonstrator in Biology*
- ISABEL ECHIKSON, M.A. (Bryn Mawr College), *Part-time Assistant in Chemistry*
- JANICE GORDON, A.B. (Bryn Mawr College), *Part-time Assistant in Chemistry*
- MIRIAM GORN, A.B. (Wellesley College), *Part-time Reader in Mathematics*
- LAWRENCE HOLLAND, M.A. (Bryn Mawr College), *Part-time Assistant in Physics*
- MARGARET G. HOWLAND, A.B. (Barnard College), *Part-time Assistant in History of Art*
- ARANKA EVE KOVACS, M.A. (University of Toronto), *Part-time Assistant in Economics*

ADELAIDE MAUCK, A.B. (Bryn Mawr College), *Part-time Assistant in Economics*

JANE ROYLE MCCONNELL, PH.D. (Bryn Mawr College), *Part-time Demonstrator in Biology*

ANN SEWALL MERRIAM, A.B. (Goucher College), *Part-time Assistant in Physics*

WANDA SPRINGER, A.B. (Oberlin College), *Part-time Demonstrator in Biology*

PHOEBE D. STARFIELD, A.B. (Swarthmore College), *Part-time Demonstrator in Biology*

ROBERT BRUCE THOMPSON, JR., A.B. (University of Rochester), *Part-time Assistant in Geology*

Officers of Administration

MARIAN CARTER ANDERSON, B.S. (Simmons College), *Recorder of the College*

CAROL BIBA, A.B. (University of Wisconsin), *Director of Public Information*

RAYMOND G. BUCKLEY, *Comptroller*

LOUISE HODGES CRENSHAW, A.B. (Bryn Mawr College), *Director of the Bureau of Recommendations*

CHARLOTTE BRANDON HOWE, M.A. (Radcliffe College), *Director of Halls and Head Warden*

KATHERINE A. GEFFCKEN, M.A. (Bryn Mawr College), *Assistant Dean of the College*

JANE J. MARTIN, A.B. (Bryn Mawr College), *Assistant to the Dean of Freshmen and Director of Admissions*

CLARISSA WARDWELL PELL, *Executive Director of the Resources Committee*

HORACE T. SMEDLEY, *Superintendent of Buildings and Grounds*

Library

JANET MARGARET AGNEW, B.L.S., M.A. (University of Manitoba), *Head Librarian*

JANE WALKER, B.S. (Simmons College), *Head of Cataloguing Department*

ETHEL W. WHETSTONE, A.B., A.B.L.S. (University of North Carolina), *Head of Circulation Department*

SARAH C. BENHAM, A.B., M.S.L.S. (Western Reserve University), *Assistant in Cataloguing Department*

DOROTHY V. McGEORGE, A.B., B.S.L.S. (Drexel Institute), *Part-time Assistant in Acquisitions Department*

ELIZABETH H. NOBLE, B.S., M.S.L.S. (Drexel Institute), *Assistant in Cataloguing Department*

PAMELA G. REILLY, A.B., M.S.L.S. (Drexel Institute), *Assistant in Circulation Department*

Physical Education

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

ETHEL GRANT, *Instructor in Physical Education*

GLORIA SCHMIDT, M.A. (New York University), *Instructor in Physical Education*

JANET A. YEAGER, *Instructor in Physical Education*

Foreign Students

MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*

Halls of Residence

JANINE LEE BRUNEAU, *Lic.ès L.*, *Warden of Wyndham*

MARTHA ANN CHOWNING, M.A. (University of Pennsylvania),
Warden of Pembroke West

PILAR GONZALEZ, M.A. (Bryn Mawr College), *Warden of Pembroke East*

MARGARET MCCABE, M.A. (Bryn Mawr College), *Warden of Rockefeller*

RILLA PHILLIPS, M.A. (Bryn Mawr College), *Senior Resident of the Graduate Center*

CAROLINE REINERO, M.A. (Middlebury College), *Warden of Denbigh*

FRANCES SHIRLEY, M.A. (Bryn Mawr College), *Warden of Merion*

NANCY R. TATUM, M.A. (Bryn Mawr College), *Warden of Rhoads*

JEANNY ESTHER VORYS, M.A. (University of Chicago), *Warden of Radnor*

Health

ELIZABETH HUMESTON, M.D. (Cornell University), *College Physician*

FREDERIC C. SHARPLESS, M.D. (University of Pennsylvania School of Medicine), *General Consultant*

ISAAC SHARPLESS, M.D. (University of Pennsylvania School of Medicine), *Assistant College Physician*

HOWARD B. SMITH, M.D. (Jefferson Medical College), *Consulting Psychiatrist*

RICHARD G. LONSDORF, M.D. (University of Pennsylvania School of Medicine), *Consulting Psychiatrist*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

Phebe Anna Thorne School

SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director*

EVE BRILL, B.S. (Teachers College, Columbia University),
Teacher

ENA B. JEFFRYS, A.B. ((Radcliffe College), *Assistant Teacher*

GEORGIANNA ENGSTROM, A.B. (University of Minnesota), *Assistant Teacher*

Child Study Institute

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania),
Director

LOIS R. TABER, A.B. (Mt. Holyoke College), *Social Caseworker*

ELIZABETH WHEELER, M.S.S. (Bryn Mawr College), *Social Caseworker*

CORNELIA T. BIDDLE, A.B. (Bucknell University), *Part-time Social Caseworker*

ELSIE WAELDER, M.S.W. (Western Reserve University), *Part-time Social Caseworker*

LELIA BRODERSEN, M.A. (Temple University), *Psychologist*

ELEANOR BEATTY, M.A. (George Washington University), *Psychologist*

ANITA GRINNELL, M.S. (University of Pennsylvania), *Part-time Psychologist*

CONSTANCE GRANT, B.S. (University of Pennsylvania), *Remedial Reading Teacher*

MARGARET C. PEARCE, B.S. (University of Minnesota), *Remedial Speech Teacher*

JAMES G. DELANO, M.D. (Washington University Medical School), *Consulting Psychiatrist*

MARGARET DEALY, M.D. (Cornell University Medical College),
Consulting Psychiatrist

MELVIN S. HELLER, M.D. (Tufts Medical School), *Consulting Psychiatrist*

MARY LOUISE LLOYD, M.A. (Yale University), *Psychological Assistant*

Introduction

BRYN MAWR COLLEGE was founded as an institution of higher education for women by Dr. Joseph Taylor of Burlington, New Jersey, a member of the Society of Friends. The charter was granted by the Commonwealth of Pennsylvania in 1880. The College opened in 1885 with Dr. James E. Rhoads as the first president and Dr. M. Carey Thomas as Dean of the Faculty. On the resignation of President Rhoads in 1893, Dean Thomas was elected to the presidency, an office she held until her retirement in 1922. President Marion Edwards Park succeeded President Thomas in 1922 and retired in 1942. President Katharine Elizabeth McBride took office in 1942.

Bryn Mawr College includes both an Undergraduate and a Graduate School. In addition to a four-year undergraduate course leading to the A.B. the College has, from the beginning, offered programs for the M.A. and the Ph.D. The first Ph.D. degree was awarded in 1888, a year before the A.B. degree was conferred on the first undergraduate class. Graduate study is offered in every fully organized department. The College provides special opportunities to graduate students for study and research in small seminars under the guidance of members of the faculty. Graduate work leading to the M.A. and the Ph.D. is offered in the fields of ancient and modern languages and literatures, art and archaeology, history and the social sciences, philosophy, mathematics, psychology and the natural sciences. A two-year course in Social Work leads to the degree of Master of Social Service.

The Graduate School

ADMISSION

THE GRADUATE SCHOOL is open to qualified graduates in liberal arts, men and women, from colleges or universities of acknowledged standing. Originally for women, the Graduate School has been open to men since 1947. Application for admission, to be made to the Dean of the Graduate School, Bryn Mawr College, Bryn Mawr, Pennsylvania, should be accompanied by a copy of the student's full academic record and by letters from the dean and from two or more professors of the applicant's undergraduate college.

Admission to graduate courses is under the jurisdiction of the various departments which may, at their discretion, require students whose preparation is insufficient to pursue certain introductory courses before being enrolled in a graduate course. Admission to the Graduate School does not automatically qualify a student to become a candidate for an advanced degree. Students whose courses of study meet the prerequisites may on application to the Graduate Committee be enrolled as candidates for the Degrees of Doctor of Philosophy, Master of Arts, or Master of Social Service.

Graduate Record Examination. The Bryn Mawr Graduate School recognizes as contributory evidence of the qualifications of a student for admission a record of attainment in the Graduate Record Examination as prepared and administered by the Educational Testing Service. The examination is a convenient method by which a student may supplement transcript records. Applicants for admission to the Graduate School who wish to take the examination should apply directly to the Graduate Record Examination, P.O. Box 592, Princeton, N. J., where full information may be secured and arrangements for taking the test may be made.

REGISTRATION

Every graduate student must register for courses at the Office of the Dean of the Graduate School if possible in the opening week of the semester, certainly within the first two weeks. Permission to take advanced undergraduate and graduate courses must be secured from the various departments. Changes in registration must be approved by the Dean.

Program of Study

THE GRADUATE PROGRAM is planned to give students a small number of hours in the seminar (often not more than six) and ample time for individual work under the guidance of members of the faculty. Graduate students work in seminar rooms and laboratories close to the offices of members of the faculty and have abundant opportunity for conference and discussions.

Three units of graduate work, each planned to take a third of the student's time, constitute a full program. Units of graduate work are of the following types:

1. The seminar or graduate course, described under the departmental announcements. These courses usually meet two hours a week. They are open to properly qualified first-year, as well as to more advanced, graduate students.
2. A supervised unit of graduate work, equivalent to a seminar or graduate course, planned and examined by an instructor but carried on independently by the student. Such work may consist of reading with assigned reports, research with results submitted, or a combination of both.
3. An advanced undergraduate course with additional work. Advanced undergraduate courses are sometimes elected to complete the student's prerequisites or to provide essential training in an allied field. One such course, accompanied by additional work, may, with the approval of the major department, be included in the M.A. program. Advanced undergraduate courses and certain second-year and elective courses are included with the graduate courses in this Calendar. A full list of undergraduate courses is available in the Calendar of Undergraduate Courses.

Graduate courses or seminars usually hold one meeting a week, lasting two hours. Each of these courses is planned to fill a third of the student's working time, thus three constitute a full program of work. Undergraduate courses, which normally meet three times a week, require a quarter of the student's time. Supplementary work therefore is needed if students offer an undergraduate course for graduate credit.

Prerequisites. The prerequisites for graduate courses are established by the various departments. In special cases, with the approval of the department concerned, work in related subjects may be accepted as a prerequisite.

Grading. Two grades are given for graduate work, Satisfactory and Unsatisfactory. Occasionally extensions may be given for the completion of work. However, there will be no extension beyond November 1st of the year following that in which the work was due. After November 1st the work will be graded Unsatisfactory or the term Incomplete will remain permanently on the record.

Journal Clubs and Colloquia. In many departments the instructors and graduate students meet from time to time to discuss current research or to review recent publications in their field of study. Students will be notified by their respective departments of arrangements for their Colloquia or Journal Clubs.

RECIPROCITY WITH THE UNIVERSITY OF PENNSYLVANIA

Courses at the University of Pennsylvania are available to graduate students at Bryn Mawr College. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr. The University charges a library fee of \$5.00 and a fee for late registration.

The Degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service

BRYN MAWR COLLEGE awards the degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The course of study for the degree of Doctor of Philosophy at Bryn Mawr College is designed to prepare the candidate for a professional career as a scholar. The course offers the student the opportunity to acquire a broad general background in the chosen fields of knowledge and practice in research in these fields. The degree is awarded after the student's general knowledge and ability in research have been tested by examination and by a dissertation.

The candidate for the Ph.D. degree should have ability of high order, intellectual curiosity and critical judgment, independence, a broad general education, fundamental training in the major and allied fields and the determination needed to carry through an exacting program.

The general requirements for the Ph.D. degree, to which should be added the specific regulations of the various departments, are:

1. An undergraduate preparation in major and allied fields which is satisfactory to the departments concerned and to the Graduate Committee.

2. A course of study requiring a minimum, which will usually be exceeded, of three full years of graduate work in major and allied fields; two of these years, or for holders of the A.B. degree from Bryn Mawr College one, must be spent in the Graduate School of Bryn Mawr College. Candidates are strongly advised to complete at least seven units of graduate work including five graduate courses; there are, however, no formal course requirements for those who have been accepted as candidates for the degree.

3. The acceptance of the student as a candidate by the Director of her work, by members of her major department, and by the Graduate Committee.

4. A reading knowledge of two modern languages, tested by written examinations in the translation of texts in the field of the major subject.* These examinations must be passed before the student takes the Preliminary Examination.

5. A satisfactory Preliminary Examination in the candidate's major and allied fields. This examination, consisting of several written examinations, and, at the option of the department, an oral examination, is intended to test the candidate's general knowledge of the fields rather than familiarity with particular courses.

6. The preparation of a dissertation judged to be a contribution worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject. It must contain new material, results or interpretations.

7. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

8. The publication of the dissertation in whole or in part. Microfilming is accepted as a method of publication.

THE DEGREE OF MASTER OF ARTS

The degree represents the completion of a coordinated program of graduate work which, for a well-prepared candidate, requires a minimum of a full year of graduate study. Experience has shown that the majority of students need two years. Work for the degree may be spread over several academic years which need not be in succession but must be included in a five-year period. Only courses taken at Bryn Mawr College are credited for the degree.

Prerequisites. The prerequisite for the M.A. degree is an A.B. degree or its equivalent from an American college of recognized standing or a degree or certificate of the same standard from a foreign university. The preparation must include such under-

* See the statements under the Departments for the language requirements of the Departments. For the Ph.D. in Social Work only one modern language, French, is required.

A student whose mother tongue is not English may, with the approval of her department, offer English as one of the modern languages.

graduate work in the candidate's major subject and allied fields as various departments shall require.

Application. The candidate must apply for the degree in the department of the major work and must receive the endorsement of the department for the program of work. The application and the program endorsed by the major department must be submitted to the Dean of the Graduate School not later than December first of the academic year in which the candidate wishes to take the degree.

Language Requirement. A reading knowledge of two modern languages is in general required of all candidates.* Students in Economics, Education and Psychology may offer Statistics instead of the second language. Candidates whose major work is in a modern language must offer a reading knowledge of two other languages.

Holders of the Bryn Mawr A.B. degree who have as undergraduates passed examinations in the languages required for the M.A. degree by their major departments are not required to be re-examined unless five years have elapsed between the time when the A.B. language examination was passed and the date set for the M.A. language examination.

A student whose mother tongue is not English may offer English for one of these languages. The requirement in English shall be met by a certificate from the student's major department that her English is adequate or by a special examination given by her department not later than November in the academic year in which the degree is to be taken. This special regulation for foreign candidates does not prevent a department from refusing to admit students to any seminar for which their language equipment is not satisfactory.

The language requirement is met by passing one of two types of papers, hereinafter referred to as the general and the special types. (1) General type: a test of reading at sight and with a dictionary which is given by Bryn Mawr College to candidates for the A.B. degree. (2) Special type: a test set by the major department in reading at sight and with a dictionary technical material in the candidate's field such as is required of Ph.D. candidates at Bryn Mawr College. Departments vary in the type of paper required.

* See the statements under the Departments for the departmental language requirements.

Examinations in languages, and in the techniques which may be substituted for one language, will be held three times each year in October, January and April. At least one of the examinations must be taken not later than the October period of the academic year in which the degree is to be received. All departments except Biology, Classical Archaeology, Mathematics and Spanish require that at least one shall be passed by that time. No candidate may receive the degree in any academic year unless she has passed both examinations by the January examination period, or, in special cases approved by the major department and the Graduate Committee, has been permitted to postpone passing one until the April examination period.

Students are expected to prepare for these examinations before entering upon the work for the M.A. degree and are strongly urged to take both examinations in October. *Students who do not meet the two requirements in languages and techniques in October may find it impossible to carry a full program and complete the requirements for the degree in one year.*

Program of Work. The candidate's program must include three units of work: (1) one seminar or graduate course; (2) a second seminar or supervised unit of graduate work; (3) a third seminar or an undergraduate course recommended by the major department. If undergraduate courses are included in this last unit, they must be supplemented by organized individual work. Under certain circumstances advanced undergraduate courses in science can be counted as seminars, subject to the approval of the department and the Dean of the Graduate School. It is expected that the student's program will frequently include study in an allied field. Candidates whose major department conducts a Journal Club or Colloquium are expected to include it in their registration.

Special Field. The candidate shall, in consultation with the major department, select a special field for the M.A. paper and the Final Examination. It is expected that this field will normally relate to one of the seminars or units of graduate work in the candidate's program.

Final Requirements.

1. *Courses.* Before the Final Examination period, candidates must have completed to the satisfaction of their instructors the

courses registered for the degree. No candidate will be admitted to the Final Examination if a course is reported as unsatisfactory.

2. *Paper in the Special Field of the Student's Major Subject.* Every candidate must present a paper in the special field. The paper may take the form of a report on a special piece of investigation carried on throughout the year or during a definite period, or of a problem which is assigned to be completed during a specified limit of time.

3. *An Examination.* Every candidate must pass a Final Examination which shall test her ability to place the special field in the general background of her major subject.

The Final Examination may not be taken until

- (1) the language requirements have been met;
- (2) the three units have been reported as satisfactory;
- (3) the paper in the special field has been accepted.

THE DEGREE OF MASTER OF SOCIAL SERVICE

The Department of Social Work and Social Research provides a two-year program of study leading to the degree of Master of Social Service.* The program is designed to prepare students for work in the various social services and offers two major areas of concentration—social casework and social research. In the program in social casework provision is made for concentration in the following specific fields: Child Welfare; Family Welfare; Medical Social Work; and Psychiatric Social Work.

Prerequisites. The prerequisite for the M.S.S. degree is an A.B. degree or its equivalent from an American college of recognized standing, or a degree or certificate of the same standard from a foreign university. An undergraduate major in one of the social sciences is usually required, although in exceptional cases this requirement is waived.

Program of Work. The course of study for the M.S.S. degree constitutes professional preparation for practice in the field of social work. From the courses listed in the *Bulletin* of the Department of Social Work, requirements will include Physical and Psycho-

* The M.A. degree is not offered in this Department.

logical Development of the Individual, Problems of Physical and Mental Disease, Patterns of Behavior, The Social Services, Legislation for Social Security, Social Casework, Social Group Work, Community Organization, Introduction to Social Research, Thesis Seminar and field work.

The basic first-year program is the same for all students. The field of concentration in social casework or social research will determine the requirements in the second year. In individual instances, courses in related departments will be substituted for requirements or selected as electives. Such instances, however, will be few in number.

Requirements for Degree. Candidates for the M.S.S. degree must have completed the equivalent of six units, including designated field work, as well as specified non-credit lectures. Candidates must prepare a Master's thesis and pass a Final Examination which will test their ability to place their special fields in the general background of social work. There are no language requirements for the M.S.S. degree.

Residence and Fees

THE GRADUATE CENTER

Residence for forty-five graduate students is provided in the Graduate Center which lies at the north end of the campus, about an eight-minute walk from the Library. There is a separate room for each student; meals and health service are included in the residence charge.

Besides housing forty-five women students the Graduate Center is the headquarters of the Graduate Club, the nucleus of the social life of the Graduate School. The Center's public rooms—a large living room and the Manning-Smith recreation room—are available to all members of the Club. The dining room, which seats sixty, is open to non-resident students living outside the Center who wish to lunch or dine there. For the residents there are smoking rooms and tea pantries. The bedrooms are fully furnished except for curtains. Bed linen, including blankets, is provided but students should bring their own towels. Because of College fire regulations, smoking is not permitted in the bedrooms.

Application for a room should be made as early as possible. A room-contract, which will be sent on request, must be signed and returned, with the registration fee of ten dollars, to the Dean of the Graduate School. The amount of this fee will be deducted from the residence fee. The registration fee will not be refunded under any circumstances. A student in residence or a new student who cancels her reservation after September first prevents some other student from obtaining accommodation. Therefore, unless a student sends notice of withdrawal in writing to the Dean of the Graduate School before September first, she is responsible for that portion of the residence charge which the College loses by reason of her withdrawal, whether she fails to occupy the room at all or vacates it during the year. Appropriate reduction or remission is made for that portion of the residence fee which represents reduced expense to the College for food; a further remission or reduction is made if the College is able to reassign the student's room to some other student not previously in residence. The student herself is not entitled to dispose of the room she leaves vacant. In case of absence from

the College extending over six weeks or more, owing to illness, there will be a proportionate reduction in the charge for the cost of food.

The regular charge for residence (room, board and health service) for graduate students is \$950 a year, payable one half early in the first semester and the other half early in the second semester.

Residence in the Graduate Center is for the academic year only—from the opening of college until Commencement Day. All college residence halls are closed during the Christmas vacation but accommodations in the neighborhood can usually be secured by graduate students who wish to continue their work. During the spring vacation one hall of residence is kept open and graduate students may occupy rooms in it at a fixed rate. Baggage will not be accepted at the College before September 15th. It should be sent prepaid, addressed to the Graduate Center.

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

FEES

The tuition fee for graduate students is \$600 a year in 1957-1958, \$800 thereafter, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work in 1957-1958 the fee for each course, seminar, or unit of supervised work, is \$200 a year or \$100 a semester; after 1957-1958 the fee for each seminar, etc. will be \$300 a year.

Fees for auditors are the same as for students registered in courses for credit.

Students in the departments of Physics, Chemistry, Geology, Biology, and Psychology, whose laboratory or field work is done in connection with a graduate course or an advanced undergraduate course which may be counted for an advanced degree, are charged a laboratory fee of \$10 a semester for each course, the fees charged not to exceed \$25 a semester. The fee for labora-

tory work done in connection with a first- or second-year undergraduate course is \$15 a semester. After 1957-1958 laboratory fees will be discontinued.

All students taking courses which require field work in the Department of Social Work are charged a fee of \$10 a semester for each such course taken during the academic year and a fee of \$10 for summer field work. This fee covers a part of the expenses of field supervision. In addition students are required to meet their travelling and incidental expenses while working in the field during the academic year and vacations.

Students whose fees are not paid before November first in the first semester and before March first in the second will not be permitted to continue in residence or to attend their classes. No reduction of the tuition fee will be made on account of absence or dismissal or for any other reason.

The graduation fee for Doctors of Philosophy, Masters of Arts, and Masters of Social Service is \$20.00.

The Office of the Recorder will supply on request one transcript of the record of each graduate student free of charge. For additional transcripts a charge of \$1.00 each will be made.

SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

Regular	1957-58	1958-
Tuition Fee	\$600	\$800
Residence (including health service).....	950	950
Contingent		
Dispensary Fee (for non-resident students)...	15	15
Laboratory Fees .....up to..	50	0
Social Work Field Work Fee	20	20
Graduation Fee	20	20
Expenses, Christmas and spring vacations, commuting	variable	variable

GRADUATE CLUB

All graduate students residing in the Center are members of the Graduate Club and non-resident students may become members. The organization of the life of the graduate students in all matters not purely academic or affecting hall management is in the hands of the Club. The President of the Graduate Club is a member of the College Council, a non-legislative body which meets periodically to discuss matters concerning the College as a whole. The Council of the Graduate Club considers policies relating particularly to the Graduate School.

Fellowships and Scholarships

The College awards, on the basis of academic excellence, about sixty graduate scholarships and fellowships to women. Some awards are also open to men. The various types of awards are described below.

APPLICATION

Applications for fellowships and scholarships should be made to the Dean of the Graduate School and must be filed complete not later than March first preceding the academic year for which they are desired. The documents are the same as for admission. Blanks are forwarded to all applicants by the Graduate Office. Awards are announced each year on April first and recipients should signify their acceptance or refusal by April fifteenth. Original papers and photographs, sent by applicants in support of their applications, will be returned only if postage is enclosed for that purpose, or specific instructions are given for return by express collect. Testimonials and letters from professors and instructors are filed for reference.

Completed applications for scholarships for foreign women must be received not later than February first. The applicants will be informed of the results early in March.

FELLOWSHIPS

Twenty-two Fellowships, value \$1850 each*, are offered annually in Biology, Chemistry, Classical Archaeology, Economics, Educational Psychology, English, Geology, German, Greek, History, History of Art, Latin, Mathematics, Mediaeval Studies (the Howard Lehman Goodhart Fellowship), Philosophy, Physics, Political Science (the Justus C. Strawbridge Fellowship), Psychology, Romance Languages (two fellowships), Social Work (the Carola Woerishoffer Memorial Fellowship), and Sociology and Anthropology. They are awarded on the basis of merit and are open to American and Canadian women who are graduates of colleges of good standing, and who have completed at least one full year of graduate work.

Fellows who continue their studies at the College after the expiration of their fellowships may, by a vote of the Directors, receive the rank of Fellows by Courtesy.

* The value of the Fellowship awards will be increased after 1957-1958 to \$2050.

GRADUATE SCHOLARSHIPS

Twenty Graduate Scholarships, value \$1150 each,* are offered annually for work in any department of the Graduate School to women who are graduates of colleges of good standing.

Resident Scholarships. Scholars in their first year at Bryn Mawr are required to live at the Graduate Center. Others may elect to do so. The stipend covers tuition and part of the residence charges.

Non-Resident Scholarships. Scholars who have had a full year at Bryn Mawr may live off campus. Tuition plus Dispensary fees will be deducted from the stipend and the balance paid the student in November and March.

TUITION SCHOLARSHIPS

Six scholarships providing free tuition are available to students whose homes are in the neighborhood.

SCHOLARSHIPS FOR FOREIGN WOMEN

Ten scholarships are especially designated for foreign women who have excelled in their university studies. Each scholarship carries a stipend of \$1550† which covers full tuition and board and lodging in the Graduate Center during the academic year. (Vacations are not included and students will need to provide additional funds for these and for other non-college expenses.) A student who holds a scholarship for a second year may live off campus if she prefers. Applicants must have had three or four years of university training. Scholarship holders are expected to carry a full program of graduate work and to attend regularly the courses for which they are registered. At times an advanced undergraduate course may meet the student's needs better than a graduate seminar; in that case she will make extra contributions in order to bring the work to the graduate level. Most of the formal work, however, is given in seminars. These are best described as small discussion groups in which the students, as well as the instructor, actively participate. It is essential, therefore, that the student be able, not only to read and write English, but to understand it and speak it flu-

* The value of the Graduate Scholarship awards will be increased after 1957-1958 to \$1350.

† The value of the Foreign Scholarship awards will be increased after 1957-1958 to \$1750.

ently. For a full statement of the graduate program and requirements, reference should be made to the preceding pages and to the departmental announcements.

The Marguerite N. Farley Scholarships for Foreign Women. Six foreign scholarships, of the value of \$1550,* are offered. Five are available to women from any country, outside the United States and Canada; one is reserved for a candidate from Great Britain sponsored by The English-Speaking Union.

Special Foreign Scholarships for French, German, Italian and Spanish, of \$1550 each,* have been established for countries whose languages form part of the Bryn Mawr curriculum. Under this arrangement, Bryn Mawr College gives board, lodging, and tuition to the Scholars and asks them to devote four or five hours a week to supervised teaching or other assistance in the appropriate language department. The Special Scholarship for French has been named in memory of Marcelle Pardé who was a member of the French Department of Bryn Mawr College between 1919 and 1929.

SCHOLARSHIPS AND FELLOWSHIPS UNDER THE PLAN FOR THE COORDINATION OF THE SCIENCES

The several departments of the natural sciences and mathematics administer a fund for the Coordination of the Sciences, given to the College by the Carnegie Corporation of New York. Its purpose is to encourage and facilitate teaching and research in overlapping fields of science, such as biochemistry, biophysics, geochemistry, geophysics, psychophysics.

Usually three scholarships of the value of \$1150† are offered to qualified students who have had undergraduate training in two or more of the natural sciences and who wish to continue study in some borderline field. Scholarships are, however, also awarded to those students who plan to specialize in only one science, but feel the need for broadening their knowledge in some related science.

Since many students do not have the time to obtain an adequate preparation in two or more sciences during their undergraduate training, provision is also made for a so-called "Fifth Year." Scholarships are offered to those students who want to

* The value of the Foreign Scholarship awards will be increased after 1957-1958 to \$1750.

† The value of the Scholarship awards will be increased after 1957-1958 to \$1350.

broaden their undergraduate preparation in several sciences. Courses taken during the Fifth Year will usually consist of undergraduate courses, and such a program, therefore, does not lead to a higher degree in the first year.

Two fellowships of the value of \$1850 each* in the same fields are also offered to candidates who, in addition to undergraduate training, have had at least a year of graduate work in science.

These Scholars and Fellows will pay the regular tuition of \$600 a year.† For residence in the Graduate Center which is allowed if the candidate so desires and if room is available, an additional \$950 will be charged.

Occasionally a post-doctoral Research Fellowship is offered to a candidate who wishes to work in a borderline field, as outlined above, or one who, while working in one science, wants to utilize methods or tools of another science for the specific research problem.

The scholarships and fellowships under the Plan for the Coordination of the Sciences are open to men as well as women, but among candidates of equal ability preference is given to women.

The Lillia Babbitt Hyde Foundation Scholarship, of \$1400, in science and pre-medical studies, to be held during the first year of graduate work, is open to students of Biology, Chemistry and Physics. Only applicants for resident scholarships for the first year of graduate work in those fields will be considered for this scholarship. The award is made on the recommendation of the three departments.

The Helen Schaeffer Huff Memorial Research Fellowship. This fellowship is awarded for a year of research work in Physics or Chemistry at Bryn Mawr College. Candidates must be women who have demonstrated their ability for research. If other qualifications are equal among a number of candidates, preference will be given to a woman whose field of research overlaps the fields of Chemistry and Physics. This fellowship is normally awarded to a post-doctoral candidate to enable her to continue her research program. In such cases the stipend will be \$3200. In exceptional cases, candidates engaged in important research who have not completed the work for the doctorate will be con-

* The value of the Fellowship awards will be increased after 1957-1958 to \$2050.

† The tuition fee after 1957-1958 will be \$800.

sidered. For such students the stipend will be less, the amount to be determined on the basis of the candidate's qualifications.

The Helen Schaeffer Huff Memorial Research Fellow has no duties except those connected with her own research, but she may arrange with the department in which she is working to do a small amount of teaching if she so desires. The holder of this fellowship may, if she wishes, live in the Graduate Center.

SOCIAL WORK

The Carola Woerishoffer Scholarship in Social Work and Social Research, of \$1150,* is offered annually to a student in the Department of Social Work. First-year students will reside in the Graduate Center; second-year students may elect to live elsewhere.

Agency Fellowships and Scholarships. A number of scholarships ranging in value from \$500 to \$2400 are offered by various agencies in Philadelphia and vicinity to second-year graduate students, men and women, who wish to be candidates for the degree of Master of Social Service. These agency scholarships and fellowships frequently call for field work placement in the agency giving the grant, and in some cases require an agreement relative to employment for one year following the holding of a grant.

Federal Stipends. The United States Public Health Service offers traineeships of \$1800 for first-year students, and \$2000 for second-year students, both men and women. The holders of such stipends must have career objectives in psychiatric social work.

The Office of Vocational Rehabilitation offers traineeships of \$1600 to both first and second-year students. These grants are open to both men and women whose career objectives are in the field of rehabilitation. A limited number of both United States Public Health Service and Office of Vocational Rehabilitation traineeships are made available to the Department and are allocated to students after they have been accepted for admission.

The Alumni Association of the Department of Social Work and Social Research usually provides a tuition scholarship open to either first or second year students.

* The value of the Scholarship will be increased after 1957-1958 to \$1350.

The Susan M. Kingsbury Research Grant in Social Research, value \$300, is awarded every third year on the recommendation of the Director of the Carola Woerishoffer Graduate Department of Social Work and Social Research to advanced students, preferably candidates for the degree of Doctor of Philosophy. Women holding this grant may live in the Graduate Center.

TRAVELLING FELLOWSHIPS

The Fanny Bullock Workman Fellowship, value \$1850, for a year of study or research abroad or in special cases in the United States, was established in 1927 by bequest of Fanny Bullock Workman and by gift of her husband, Dr. W. Hunter Workman. It is awarded to a candidate for the degree of Doctor of Philosophy at Bryn Mawr College who could not have the advantages of such a year without assistance. At the discretion of the Faculty, the fellowship for any one year may be divided between two students, or the same student may hold the fellowship for more than one year.

The Anna Ottendorfer Memorial Research Fellowship, value \$1850, in Teutonic Philology and German Language and Literature, founded in 1907 by Mrs. Anna Woerishoffer of New York City in memory of her mother, is to be applied to the expenses of study and residence for one year at some German university. It is awarded annually to a candidate who has completed at least one year of graduate study at Bryn Mawr College, on the basis of evidence regarding her ability to conduct independent investigations in the fields of Teutonic Philology or German Literature. The choice of a university is determined by the holder's preference subject to the approval of the Faculty.

The Ella Riegel Fellowship or Scholarship in Classical Archæology was founded in 1937 by bequest of Ella Riegel. It is awarded on the recommendation of the Department of Classical Archæology and only to advanced students in this subject. It is given for study abroad but may, at the discretion of the Department, be used at Bryn Mawr College.

DUTIES OF FELLOWS AND SCHOLARS

All holders of fellowships and scholarships are required to carry a full program of graduate work. Fellows and Scholars at

Bryn Mawr are expected to attend official functions of the College and assist in the conduct of examinations. Holders of fellowships are expected to give about an hour and a half a week to special work assigned by their departments, and are not permitted to accept any other appointments. Holders of scholarships may, with the approval of the Dean of the Graduate School, make their own arrangements to do a limited amount of paid work. Each Travelling Fellow is asked to present a written report of her work during her year on her fellowship. This report should be sent about the first of March to the Dean of the Graduate School for transmittal to the student's department.

GRADUATE PRIZE

The Susan B. Anthony Memorial Prize, value \$500, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered every two years to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic, or political position of women. The award is made by a committee of which the President of the College is chairman.

EMMY NOETHER FELLOWSHIP IN MATHEMATICS

The Emmy Noether Fellowship was founded by gifts from many donors in memory of Emmy Noether who came to Bryn Mawr College from Germany in 1933 and who died April 14, 1935. It is open to women in the United States and in foreign countries who are advanced graduate students of Mathematics. It is awarded by the Department of Mathematics in Bryn Mawr College, and may be used, subject to the approval of the Department, at any institution in the United States or in a foreign country.

GRADUATE ASSISTANTSHIPS AND DEMONSTRATORSHIPS

Assistantships or Demonstratorships, varying from one-half to one-third time and enabling the student to carry one or two units of graduate work with free tuition, are open to students in the Departments of Biology, Chemistry, Economics, Education, English, Geology, History of Art, Mathematics, Philosophy, Physics, and Psychology. For further information candidates

should consult the Department and see the departmental announcements issued each year.

The Susan M. Kingsbury Research Assistantship in Social Work, value \$1200 and remission of tuition, is awarded annually on the recommendation of the Director of the Carola Woerishoffer Graduate Department of Social Work. It is open to graduates of any college of good standing, preferably to advanced students and candidates for the degree of Doctor of Philosophy, who, from either training or experience, have knowledge of methods and techniques in social investigation. The holder will give half of her time to the research of the Department and half of her time to study.

From time to time research assistantships are available in other departments, e.g., Physics and Psychology. These assistantships are noted each year on the departmental announcements. They carry a stipend and provide free tuition in the Graduate School.

GRANTS-IN-AID

Contributions to the Alumnae Fund by former graduate students have placed at the disposal of the Graduate Scholarships Committee a small fund from which grants-in-aid may be made. These grants, not to exceed \$300, are given on the basis of need to holders of scholarships to help them meet College expenses. Application forms may be obtained from the Graduate Office; they should be submitted by April 15th.

Loan Funds

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

The committee in administering this money follows a definite policy, designed to serve the best interests of the students concerned. Loans may be used for any purpose approved by the committee, who strongly recommend the borrowing of small sums to relieve undue financial pressure, or to meet special emergencies. As a rule, money is not loaned to students in their first semester of graduate work.

The terms under which money is loaned are as liberal as is consistent with business-like principles. While the student is in College no interest is charged; after the student leaves College the interest rate is two per cent. The entire principal must be repaid within five years from the time the student leaves College at the rate of twenty per cent each year.

Contributions to the Loan Fund may be sent to the Chairman of the Scholarships and Loan Fund Committee, Alumnae Office, The Deanery, Bryn Mawr, Pennsylvania. Students who wish to borrow from the Loan Fund may obtain application blanks for this purpose from the Alumnae Office, which is situated on the second floor of the Deanery.

The Mary Hill Swope Loan Fund was established June 1, 1945 by a gift of Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

1. The following order of preference shall be observed in awarding such loans:
 - a. To students coming from New Jersey.
 - b. To students coming from Missouri.
 - c. To students coming from any other location who have had not less than one year of residence at the College.

2. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn Mawr College, or by a Committee appointed by her from time to time.
3. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.
4. These loans shall be used primarily to enable the exceptional student to continue her studies which otherwise would be prevented through lack of means.
5. In the awarding of the loans, the recipient should understand that if in after years she is in a position to do so, she is to repay to the income account of the Loan Fund the amount so loaned to her, with or without interest. It is to be understood that this is entirely a moral obligation upon the recipient.

MEMORIAL LOAN FUNDS

The Bertha Goldstein Memorial Loan Fund, the Rachel Pflaum Memorial Loan Fund and the Ethel Rupert Loan Fund are revolving funds from which, upon recommendation of the Department of Social Economy, a limited number of loans may be made to graduate students of Social Economy. Loans are made without interest and must be repaid within one year after completion of study at Bryn Mawr.

The Bureau of Recommendations

The College conducts a Bureau of Recommendations for alumnæ, students, and former students. This Bureau offers an employment service for permanent, temporary, and part-time positions; and a vocational service for the student body, which includes vocational tests, assistance in choosing a vocation, and the presentation of a series of conferences and lectures. It also acts as a clearing house for letters of recommendation for those who have registered with the Bureau. These letters will be sent, upon request, to prospective employers and other agencies.

Students of foreign citizenship are advised that government regulations severely limit their employment.

The Library

THE M. CAREY THOMAS LIBRARY now contains over a quarter of a million volumes. The Library has a good working collection in all fields in which graduate study is offered. The collection includes files and current numbers of about one thousand periodicals published in the United States and abroad. For the use of graduate students there are thirteen seminar rooms and, in addition, a limited number of carrels in the stacks. The scientific libraries are described on page 46.

The open shelf system provides the maximum of free access to the stacks so that almost all books except those in the Rare Book Rooms are directly available to the students. The Reference Room and Periodical Room provide ready access to standard works of reference and current periodicals. There is a large reading room with individual desks.

Provision is made in the Quita Woodward Memorial Room for books for pleasure or recreational reading. This collection, numbering more than two thousand volumes, includes books in literature, art, religion, and current affairs as well as many of the classics.

In the two Rare Book Rooms unusual bibliographical items are shelved and displayed: early printed books, manuscripts, first editions, fine press books, and association copies. Exhibitions of the Library's own material and material lent by friends of the Library are displayed here at intervals during the academic year. Here also are incunabula numbering over nine hundred volumes, the gift of Howard L. Goodhart. This collection, known as the Marjorie Walter Goodhart Mediæval Library and consisting mainly of philosophical and theological works printed in the 15th century, is outstanding among college library collections.

Other facilities available to graduate students are the rich resources in the libraries of the Philadelphia area. Through the services of the Union Library Catalogue at the University of Pennsylvania volumes in over 300 libraries within the area may be easily located. The Philadelphia Bibliographical Center and Union Library Catalogue has recorded over 3,500,000 titles in the region by which research workers are aided in bibliographical problems outside the scope of any one library. Through this

channel the great collections of the University of Pennsylvania, the Free Library of Philadelphia, the Historical Society of Pennsylvania as well as the Library Company of Philadelphia, the American Philosophical Society, the Franklin Institute, the Academy of Natural Sciences, the College of Physicians, Swarthmore College and Temple University are made available. Graduate students who wish to use other libraries for purposes of reference may secure letters of introduction from the Bryn Mawr librarian.

Three College cooperation also augments the facilities of the M. Carey Thomas Library. In the main catalogue are filed author cards for books in the collection of Haverford College, facilitating the use of books in its library. Catalogue cards representing the authors of books pertaining to Russia and significant material collateral to the study of that country are filed for Swarthmore College as well as for Haverford.

ART MUSEUM AND SLIDE COLLECTION

The collection of slides used in the Departments of Classical Archaeology and History of Art, includes some 40,000 items, representing all fields of Western and Oriental art from pre-historic times to the present. It is supplemented by a collection of 35,000 photographs and color reproductions.

A small but valuable group of original works of art, available for study, include Greek and Roman vases, ancient coins, sculpture, Oriental pottery and scrolls, prints, and modern American and European paintings. The Ella Riegel Museum of Classical Archaeology contains the Densmore Curtis Collection presented by Clarissa Dryden, part of the Hoppin Collection, the Elizabeth Washburn King Collection of Classical Greek coins, and the Aline Abaecherli Boyce Collection of Roman Republican silver coins, as well as various gifts from friends of the College. For Far Eastern study the Chapin Collection of books, paintings, calligraphy, textiles, and ceramics includes material from Korea as well as from China and Japan. Western art is variously represented by several small collections, including the Howard L. Gray Collection of Modern Prints and the Neuberger Collection of Contemporary American Paintings.

Laboratories

THE DEPARTMENTS of natural sciences occupy two buildings. The laboratories and libraries of the Biology and Physics Departments are in Dalton Hall, the original science building which was opened in 1893 and remodelled in 1939 for the use of these two departments and the Department of Mathematics. The laboratories and libraries of the Chemistry and Geology Departments are in Park Hall, completed in 1939. In both buildings there are large laboratories and lecture rooms for undergraduate students and smaller seminar rooms and laboratories for graduate students. In addition to the usual equipment the science departments have special apparatus and instruments, needed in particular research projects by faculty and graduate students, and made available in part through the plan of the Coordination of the Sciences.

In Park Hall there is a laboratory for microphotography as well as the large mineral collection of the Geology Department. In Dalton Hall there is a machine shop and a glass-blowing shop in charge of an expert machinist and a glass-blower. In addition there is also a student shop at the disposal of graduate students.

Each of the science departments has its own library including a large collection of scientific journals. The Geology Department also has a collection of over 25,000 maps on deposit from the U. S. Army Map Service.

The laboratories of Experimental Psychology are housed in the Library and East House Annex.

Health

Every graduate student whether resident or non-resident must file a physician's certificate stating that she has been vaccinated against smallpox during the year before entrance to the Graduate School and that she exhibited a typical or immune reaction to this vaccination. Students who do not certify to vaccination will be vaccinated at the time of their entrance physical examinations and charged a fee of two dollars. There is no exception to this rule.

Every entering resident graduate student is required to file at the office of the Dean of the Graduate School, on a blank supplied by that office, a report of a recent medical examination, filled in and signed by a physician.

Resident students must present on a separate blank a statement of immunization against tetanus by toxoid and of evidence of a negative Schick test, or immunization against diphtheria, both within one year of entrance. If these have not been done by the time the student arrives in Bryn Mawr, these tests will be done at the time of the initial physical examination at a fee of one dollar for each test.

Every resident graduate student must file a certificate stating that her eyes have been examined by an ophthalmologist within six months before entrance to the Graduate School. Failure to comply with the above rule entails an examination by one of the college consultants for which the student will be charged as a private patient by the ophthalmologist who makes the examination.

Every resident graduate student must have a chest X-ray film at the beginning of each year. These 70 mm. photofluorographic films are made free of charge by Bureau Tuberculosis Control, State of Pennsylvania Department of Health. If necessary the plate is checked by a flat chest plate at Bryn Mawr Hospital. The student is charged for this at the prevailing private patient rates of the hospital.

Every entering resident graduate student is examined by the Physician of the College, with reference to physical development and general health. Second- and third-year residents whose health records have been approved by the College Physician are

not examined. Any graduate student who at the time of the examination or at any time during the year is not in good health is placed on the health supervision list.

The College Physician is in her office in the college infirmary daily and may be consulted by the students without charge. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The fees of the consulting physicians and surgeons and other specialists recommended by the College will be furnished on request. The infirmary is open when college is in session and during the spring vacation. It is closed during the Christmas vacation.

The residence charge paid by each resident graduate student entitles her to free consultation with the College Physician and College Psychiatrists and to treatment in the college dispensary. It also entitles her to be cared for in the infirmary for seven days (not necessarily consecutive) during the year, to attendance by the College Physician during this time and to nursing, provided her illness is not contagious and is not sufficiently serious to require the services of a special nurse. The fee for each day in the infirmary after the seven-day period is seven dollars. In case of contagious disease special nursing is obligatory and the student must meet this expense.

Non-resident graduate students may, if they so desire, pay a non-resident infirmary fee of fifteen dollars which entitles them to care and consultations by the College Physicians and Psychiatrists, and to dispensary care. (Non-resident Scholars are required to pay this dispensary fee.) All may also take the opportunity of having a free chest X-ray when the college X-ray survey is made in the autumn. *Since non-resident students cannot be given bed care in the Infirmary they are urged to take out hospital insurance.*

Announcement of Courses

The following is a list of the seminars and graduate courses and of undergraduate courses which can be expanded to count for graduate credit. It is the practice of most departments to vary the graduate courses and seminars from year to year. The announced order may be changed either because of changes in the teaching staff or in order to meet the needs of the students. For a full announcement of undergraduate courses see the Calendar of Undergraduate Courses.

Undergraduate courses in each department are numbered according to the following system:

201, 202, etc.....indicate second-year undergraduate courses.

301, 302, etc.....indicate advanced undergraduate courses.

*.....indicates elective courses.

"a".....the letter "a", following a number, indicates a half-course given in the first semester.

"b".....the letter "b", following a number, indicates a half-course given in the second semester.

"c".....the letter "c", following a number, indicates a half-course given two hours a week throughout the year.

[].....Square brackets enclosing the titles of courses indicate that, although the courses are regular parts of the program, they are not given in the current year.

Biology

PROFESSORS:

MARY S. GARDINER, PH.D., *Chairman*

L. JOE BERRY, PH.D.

ELEANOR A. BLISS, SC.D.

JANE M. OPPENHEIMER, PH.D.

ASSISTANT PROFESSOR:

ROBERT L. CONNER, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. Good undergraduate training in Biology, or Zoology, or Zoology and Botany, including courses in general and organic chemistry. Students whose preparation in Biology or in Chemistry is not considered adequate for admission to seminars will be required to make up the deficiency.

Major and Allied Subjects. Students may specialize either in morphology or in physiology. Students electing morphology will be expected to take some work in physiology, and vice versa. The work in the subsidiary field of Biology may be counted as allied work; other allied subjects may be chosen from fields in Chemistry and Physics, and in special cases, with the approval of the Graduate Committee, from other related fields.

Language Requirements. Candidates for the M.A. and Ph.D. degrees must offer French and German to be tested by the special type of examination.

Program and Examination for the M.A. One full year, or its equivalent, of course work in seminars or advanced undergraduate courses arranged for seminar credit and a written report on a piece of experimental work carried out under the direction of a member of the Department. Qualified students may substitute a unit of supervised research for formal course work. While the work may be completed in one year by full-time students, it may be extended over two or more years and students with incomplete preparation may find such extension necessary. The final examination consists of a three-hour written examination covering the areas of study and a forty-five minute oral examination concentrating particularly on the interpretation and significance of the experimental problem.

Examinations for the Ph.D. The Preliminary Examination for the Ph.D. consists of three written examinations of four hours' duration. Two of these will usually be in the major field and one in an allied field. In preparation for them, the candidate will probably elect to take all the seminars offered in her special area of interest and selected seminars or courses in related or allied fields. A large proportion of her time will be given to experimental research, the results of which will form the substance of her dissertation. The Final Examination is oral, covering the subject of the student's dissertation in relation to more general biological problems.

SEMINARS AND GRADUATE COURSES

All advanced undergraduate courses and Physiology 202 may be taken for graduate credit, provided that some additional work either in reading or experimentation is arranged with the instructor and completed by the student.

Seminars are offered in the following fields. The topics considered in any year are selected in accordance with the needs and desires of the students enrolled.

Morphology

Miss Gardiner: *Cytology*

Cell structure and function.

Cytological aspects of normal and abnormal growth.

Histogenesis.

Problems in mitosis and meiosis.

Miss Oppenheimer: *Experimental Embryology*

Factors controlling growth and differentiation.

Form and function in animal development.

Gastrulation and organogenesis in vertebrates.

Morphogenesis in invertebrates.

Physiology

Mr. Conner: *Biochemistry*

Selected topics in intermediary metabolism.

Biochemical techniques.

Mr. Berry: *Experimental Physiology*

Bioelectrics and selected topics in biophysics.

Kinetics of biological reactions.

Mechanisms of defense against infectious diseases.

Physiological techniques.

Physiology of micro-organisms.

*Bacteriology*Miss Bliss: *Bacteriology*

Bacteria and chemotherapeutic agents.

SELECTED UNDERGRADUATE COURSES

202. *General Physiology*: Mr. Berry, Mr. Conner.
 301. *Theories of Heredity*: Miss Gardiner.
 [302. *Embryology*: Miss Oppenheimer.]
 303. *Physiology of Micro-organisms*: Mr. Berry.
 [304. *Micro-anatomy*: Miss Gardiner.]
 305. *Biochemistry*: Mr. Conner.

Chemistry

PROFESSOR:	ERNST BERLINER, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR:	GEORGE L. ZIMMERMAN, PH.D. ¹
ASSISTANT PROFESSORS:	FRANCES BONDHUS BERLINER, PH.D. ² EDITH HAMILTON LANMAN, M.A. FRANK B. MALLORY, A.B.
LECTURER:	JOSEPH VARIMBI, PH.D.

Appointment to be announced

Special Requirements for Graduate Work

(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate preparation in Chemistry including courses in general inorganic, analytical (qualitative and quantitative), organic and physical chemistry, college Physics and Mathematics (calculus). Students whose undergraduate training in Chemistry is not entirely adequate may be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

Major and Allied Subjects. Students may specialize in either organic or physical chemistry. The allied subject for the Ph.D. may be chosen from the fields of Biochemistry, Mathematics, Physics, Inorganic Geology and a branch of chemistry different

1. On sabbatical leave for the year 1957-1958.

2. On leave for the year 1957-1958.

from that of the major subject. Other combinations may be accepted with the approval of the Graduate Committee and on the recommendation of the Department.

Language Requirements. Candidates for the Ph.D. must offer German and French; candidates for the M.A. may substitute Russian for French. The languages are tested by the special type of examination.

Program and Examination for the M.A. Candidates will usually offer one seminar in their special field, another seminar or advanced undergraduate course in chemistry or an allied field, and one unit of research. This unit consists of an experimental investigation carried out under the direction of a member of the Department. The final examination consists of a four-hour written examination, or a three-hour written and one-hour oral examination.

Program and Examinations for the Ph.D. Candidates will normally be expected to devote a large proportion of their time to the execution and interpretation of the experimental work, carried out under the supervision of a member of the Department. They will usually take all seminars offered in their special fields during their stay at Bryn Mawr, in addition to such courses as will give them a broad background in chemistry. The Preliminary Examination will normally be taken after the experimental work is well advanced. It consists of three four-hour written examinations, one of which is in organic chemistry, one in physical chemistry and the third will place the restricted field of the student's dissertation within her special field. For students who offer a minor subject in a department other than chemistry, equivalent arrangements will be made after consultation with the Department. The Final Examination (oral) is devoted to the subject matter of the student's dissertation.

SEMINARS AND GRADUATE COURSES

In order to meet the needs of the students and to offer them as wide a selection of topics as possible, the seminars are arranged in such a way that the same one is usually not repeated within a three year period. The topics listed below are given in one-semester seminars, counting one half unit of credit each.

- Mr. Mallory: *Organic Chemistry*
Topics to be announced.
- Mr. Berliner: *Organic Chemistry*
Physical Organic Chemistry.
Structure and Physical Properties of Organic Compounds.
Physical-Organic Aspects of Aromatic Chemistry.
Topics in Stereochemistry.
- Mrs. Berliner: *Organic Chemistry*
Natural Products.
Chemistry of Heterocyclic Compounds.
Chemistry of Free Radicals.
- Mr. Zimmerman: *Physical Chemistry*
Advanced Topics in Thermodynamics.
Quantum Theory.
Introduction to Chemical Physics.
Mathematical Methods in Physical Chemistry.
Chemical Kinetics.
- Seminar in *Physical Chemistry*
Instructor to be announced.
- Seminar in *Inorganic Chemistry*
Instructor to be announced.
- Physiological Chemistry*: See under Biology.

SELECTED UNDERGRADUATE COURSES

- 301 [a and b]. *Advanced Inorganic Analysis*: Miss Lanman.
- 302 [a and b]. *Advanced Organic Chemistry*: Mr. Berliner
and Mr. Mallory.
- 303 [a and b]. *Advanced Physical Chemistry*: Mr. Varimbi.
- Colloquium*. All members of the Department and the graduate students, and often outside speakers, meet to discuss current publications in chemistry every week.

Classical Archaeology

- ASSOCIATE PROFESSOR: MACHTELD JOHANNA MELLINK, PH.D.,
Chairman
- ASSISTANT PROFESSOR: ALEXANDER CAMBITOGLU, PH.D.
- CURATOR OF SLIDES
AND PHOTOGRAPHS: HENRIETTA HUFF LANDES, A.B.
- PROFESSOR OF
ANTHROPOLOGY: FREDERICA DE LAGUNA, PH.D.
Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate major in Archaeology or at least two courses in Archaeology combined with a major in Greek, Latin or History of Art. It is desirable that all students should have some knowledge of Greek.

Major and Allied Subjects. Greek Language and Literature; Latin Language and Literature; Archaeology of any other ancient Mediterranean or Near Eastern Culture; History of Art; Ancient History; Ancient Numismatics; Anthropology; a science integrated with the work of the major subject.

Language Requirements. German and one other modern language tested by either the general or the special examination for the M.A.; for the Ph.D., a thorough reading knowledge of German, tested by the special type of examination, and an adequate reading knowledge of a second foreign language.

Program and Examination for the M.A. Three units of work in Classical Archaeology or in Classical Archaeology and an allied field. The Final Examination is written, four hours.

Program and Examinations for the Ph.D. There is no fixed course of study or time requirement for the degree; but at least one of the preparatory years should be spent at some Mediterranean center such as Athens or Rome, and at least one summer should be devoted to European museums. (The Department has in its award the Riegel Fellowship for study abroad.) Before being permitted to take their preliminary examinations, candidates must satisfy their instructors that they are familiar with the general scope and method of archaeological study, including excavational research; that they know where the original source materials are; and that they can make practical use of bibliographical references. They must also satisfy the Department by written examination that they have an adequate general reading knowledge of ancient Greek.

The Preliminary Examination consists of four four-hour papers in such special fields as Greek and Roman sculpture, ancient architecture, Greek vase painting, numismatics, topography of classical sites, Aegean prehistory, Near Eastern archaeology, ancient Italy. One of the papers may be chosen from an allied subject; but none may deal with the same specific field as the dissertation, since this will be included in the final oral examination.

Cooperation with the Department of Classical Archaeology at the University of Pennsylvania. Attention is drawn to the

courses in Classical Archaeology offered by the University of Pennsylvania. Under the Reciprocal Plan, students at Bryn Mawr College may register for a unit of work at the University of Pennsylvania or pursue research at the University Museum. Reference should be made to the University of Pennsylvania *Bulletin*.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Miss Mellink:

Oriental Relations of Early Greek Art.

Aegean Archaeology.

Archaeology of the Ancient Near East.

Mr. Cambitoglou:

Problems in Greek Vase-Painting.

Relations Between Monumental Painting and Vase-Painting in Ancient Greece.

Problems in Greek Sculpture.

ADVANCED UNDERGRADUATE AND FREE ELECTIVE COURSES

[202a.* *Cultural History of Archaeology.*]

[202b.* *Ancient Greek Cities and Sanctuaries.*]

203a. *Greek Sculpture*: Mr. Cambitoglou.

203b. *Roman Sculpture*: Mr. Cambitoglou.

301a. *Ancient Painting*: Mr. Cambitoglou.

301b. *Ancient Architecture*: Miss Mellink.

[302a. *The Greek Style in Art*: Miss Mellink.]

Comparative Philology and Linguistics

PROFESSOR OF

GERMANIC PHILOLOGY: FRITZ MEZGER, PH.D.

PROFESSOR OF

ENGLISH PHILOLOGY: STEPHEN JOSEPH HERBEN, LITT.B., PH.D.

PROFESSOR OF

ITALIAN: ANGELINE HELEN LOGRASSO, PH.D.

ASSOCIATE PROFESSOR

OF SPANISH: JUAN MARICHAL, PH.D.

VISITING PROFESSOR

OF FRENCH: WILLIAM J. ROACH, PH.D.

Comparative Philology may be offered as an allied subject for the Ph.D. but not as a major subject.

Prerequisites. The prerequisite for the courses listed below is a good undergraduate major in any language or literature.

Mr. Mezger:

Sanskrit.

Studies in Indo-European Linguistics.

For other courses in Philology, see statements under the Departments of English, French, German, Italian, Spanish.

Economics

PROFESSORS:	MILDRED B. NORTHPROP, PH.D., <i>Chairman</i>
	JOSHUA C. HUBBARD, PH.D.
ASSOCIATE PROFESSOR:	MORTON S. BARATZ, PH.D.
LECTURER:	MAXINE WOOLSTON, PH.D.

Special Requirements for Graduate Work

(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate major or minor in Economics with work in related fields such as History and Political Science. Students whose undergraduate training in Economics is not entirely adequate may be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

Allied Subjects. Most subjects in the fields of the other social sciences, History and Philosophy, are acceptable as allied work. Mathematics, Statistics and Accounting are not only acceptable as allies but an adequate knowledge of one or more of these subjects is necessary to advanced work in Economics.

Language Requirements. For the Ph.D. two modern languages. For the M.A. two modern languages or one modern language and advanced statistics. The languages are tested by the special type of examination.

Program and Examination for the M.A. The program consists of three units of work in Economics or two in Economics and one in an allied field. One unit must be in Economic Theory. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Program and Examinations for the Ph.D. The Preliminary Examination consists of four three-hour written examinations, two of which must be in Economic Theory and The History of Economic Thought. The other two fields are selected by the student in consultation with members of the Department. Candidates for the Ph.D. are expected to have an adequate knowledge of Statistics and Mathematics and in some cases of Accounting. The Final Examination (oral) is devoted to the subject matter of the student's dissertation.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the widest possible choice for students over a two or three year period of study. Normally the same seminar will not be given two years in succession.

Miss Northrop:

International Economics.

Comparative Economic Systems.

The Development of Underdeveloped Areas.

The History of Economic Thought.

Mr. Hubbard:

Money and Banking.

Economic Dynamics.

Business Cycles and Full Employment.

Contemporary Economic Theory

Mr. Baratz:

Industrial Organization.

Prices and Price Theory.

Government and Business.

Mrs. Woolston:

Labor and Management.

Wages and Wage Theories.

SELECTED UNDERGRADUATE COURSES

[301a. *History of Economic Thought*: Miss Northrop.]

301a. *Comparative Economic Systems*: Miss Northrop.

301b. *Contemporary Economic Thought*: Mr. Hubbard.

Journal Club. Students and members of the faculty in the Department together with those in the Departments of History and Political Science meet four or five times a year to discuss research in progress, or recent books or projects of interest.

Education and Child Development

PRESIDENT OF THE

COLLEGE:

KATHARINE ELIZABETH MCBRIDE,
PH.D., LL.D., L.H.D., Sc.D.

PROFESSOR AND DIRECTOR

CHILD STUDY INSTITUTE: RACHEL DUNAWAY COX, PH.D.,
Chairman

LECTURER AND

DIRECTOR, PHEBE ANNA

THORNE SCHOOL:

SUSAN E. MAXFIELD, M.S.

LECTURER:

ETHEL W. MAW, M.S.

ASSISTANT:

LELIA BRODERSEN, M.A.

The program of study prepares for college teaching and research in Educational Psychology and Child Development, for child guidance and for teaching in the schools. The training is carried on in a setting of service to public and laboratory schools and the community at large. Classes, seminars and staff conferences provide opportunity for students from several related disciplines to develop competence in the team approach to the children's specialties in education, psychology and guidance agencies. Trends in physical, intellectual and emotional growth from infancy to maturity are stressed. The chief focus is upon learning in the family and the school.

Work leading to the certificate to teach in the public secondary school is open to students who present some preparation in psychology and are qualified in a subject matter field. Foundation work for teaching in the elementary school is available. Under the reciprocal plan with the University of Pennsylvania (see page 24) the equivalent of one seminar may be taken at that institution.

Special Requirements for Graduate Work

(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate preparation in the liberal arts which must include a laboratory course in General Psychology or its equivalent. Students whose undergraduate training in Psychology is not adequate may be required to take such undergraduate courses as seem necessary.

Major and Allied Subjects. Candidates for either advanced degree are expected to become competent in several different areas within this specialization. These areas are child develop-

ment, learning, measurement and guidance, principles of teaching, and philosophy of education. For the M.A., two fields are required. For the Ph.D., five fields must be presented. The allied subject may be chosen from the following fields: Psychology, Sociology, Anthropology or Philosophy.

Requirements in Languages and Statistics. French and German, special type of examination for the Ph.D.; either French or German, general or special type of examination for the M.A. Candidates for both degrees will be required to demonstrate a working knowledge of statistics. The requirement may be satisfied by passing an approved course or an examination.

Program and Examination for the M.A. Candidates will normally offer two units of graduate work in Education and a third graduate unit in an allied field. The final examination consists of two three-hour written examinations—one in each field offered, and a one-hour oral examination.

Examination for the Ph.D. The Preliminary Examination consists of four written examinations in special fields, including the allied field, and an oral examination on the entire field.

The Phebe Anna Thorne School and the Child Study Institute

The Phebe Anna Thorne School is maintained by the Department as a laboratory nursery school for normal children where students may observe and assist in the program for three and four year olds. For those preparing for teaching, medical work with children, child welfare or guidance the school provides opportunity for direct experience with early school development.

The Department also operates the Child Study Institute, a psychological and guidance center where problems of learning and behavior are studied and remedial measures planned and carried out for parents and children. The service is given by a staff of qualified specialists in child psychiatry, psychology, social case work and remedial teaching. Advanced students participate in the work at various levels of responsibility. Referrals from the neurological and pediatric departments of the Bryn Mawr Hospital, from psychiatrists and social agencies give students the opportunity for acquaintance with a diversity of clinical material.

A separate building on the college grounds houses the Thorne School and the Institute with rooms equipped for nursery school

teaching and for individual examination of pupils, remedial teaching, play therapy and student observation.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Mrs. Cox:

Advanced Clinical Evaluation (including the Projective Techniques).

Problems of Child Development.

The Study of the Individual.

Principles of School Guidance.

Miss Maxfield:

Developmental Psychology.

Early Childhood Education.

Mrs. Maw:

Educational Psychology.

SELECTED UNDERGRADUATE COURSES

201a. *Educational Psychology*: Mrs. Cox.

Prerequisite: Psychology 101.

202a. *Child Psychology*: President McBride and Mrs. Cox.

Prerequisite: Psychology 101. Experience in the Phebe Anna Thorne School required, two hours per week.

300a. *Principles of Teaching in the Secondary School*: Mrs. Maw.

Laboratory: 12 hours per week supervised practice teaching. This course satisfies the practice teaching requirement of most states. Plans for registration should be made in the spring or summer before the student plans to take the course in order to arrange the practice teaching assignment.

English

PROFESSORS:

STEPHEN JOSEPH HERBEN, LITT.B., PH.D.
K. LAURENCE STAPLETON, A.B.,

Chairman

ARTHUR COLBY SPRAGUE, PH.D.

MARY KATHARINE WOODWORTH, PH.D.

BETTINA LINN, M.A.

VISITING PROFESSOR:

SAMUEL CLAGGETT CHEW, PH.D., LITT.D.

ASSOCIATE PROFESSOR:

WARNER B. BERTHOFF, PH.D.¹

ASSISTANT PROFESSORS:

DAVID BONNELL GREEN, PH.D.

ISABEL GAMBLE MACCAFFREY, PH.D.

VISITING LECTURER:

HOWARD C. HORSFORD, PH.D.

Special Requirements for Graduate Work

(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate major in English (or its equivalent), consisting of a critical and historical study of several periods of English Literature. Students working in the mediaeval period must have a reading knowledge of Latin. For other students this is strongly recommended. Students must have had some training in at least one other field of the humanities: a classical or a modern foreign literature, History, the History of Art or Philosophy.

Allied Subjects. Any language and literature, classical or modern European; English Philology; American Literature; Philosophy; History, mediaeval or modern; and the History of Art.

Language Requirements. French and either German, Italian or Spanish, tested for the M.A. by the general or the special type of paper; for the Ph.D., by the special type.

Program and Examination for the M.A. Three units of work in English or two in English and one in an allied field. The final examination is written, four hours in length.

Examinations for the Ph.D. The Preliminary Examination is in five parts: four written (from three to four hours each) and an oral (one to two hours). The candidate whose major interest is in the mediaeval period must take at least one examination in the modern period; the candidate whose major interest is in the modern period must take at least one examination in the mediaeval period. One examination may be in an allied field. The Final Examination (oral, from one to two hours) is in the field in which the candidate has written her dissertation.

1. On sabbatical leave for the year 1957-1958.

SEMINARS AND GRADUATE COURSES

English Literature

Mr. Herben (One of the following seminars):

Old English Christian Poetry.

Beowulf and the Old English Lyrics.

Chaucer.

Middle English Romances.

Mr. Chew:

Problems in English Literature of the Renaissance.

Mr. Sprague (One of the following seminars):

Shakespeare.

Restoration Drama.

Miss Stapleton:

1957-1958: Studies in poetry.

1958-1959: Milton.

Miss Woodworth:

1957-1958: Literature of the Eighteenth Century.

1958-1959: Contemporary Literature.

Mr. Green:

1957-1958: The Victorian Period.

1958-1959: The Romantic Period.

Mr. Horsford:

Nineteenth-Century American Writers.

A Seminar in Philology for students of English is offered in the Department of German (see p. 68).

SELECTED UNDERGRADUATE COURSES

- 213b.* *History of the English Language*: Mr. Herben.
- 201. *English Literature of the Middle Ages*: Mr. Herben.
- 202. *Shakespeare*: Mr. Sprague.
- 203. *The Romantic Period*: Mr. Green.
- [204. *The Victorian Period*: Mr. Green.]
- [205. *Representative English Novelists*: Miss Linn.]
- 207. *English and American Literature of the Last Half-Century*: Miss Woodworth.
- 208. *American Literature*: Mr. Wallace.
- 213a. *Mediaeval Narrative*: Mr. Herben.
- [301. *Old English Literature*: Mr. Herben.]
- [302b. *The Drama from the Beginnings to 1642*: Mr. Sprague.]
- [303b. *English Poetry from Spenser to Donne*: Mr. Sprague.]
- 304. *The Seventeenth Century*: Miss Stapleton.
- [305. *The Eighteenth Century*: Miss Woodworth.]

French

PROFESSOR:	MARGARET GILMAN, PH.D., <i>Chairman</i>
VISITING PROFESSOR:	WILLIAM J. ROACH, PH.D.
ASSISTANT PROFESSORS:	MICHEL GUGGENHEIM, PH.D. MARIO MAURIN, PH.D.
INSTRUCTOR:	PHILIP KOCH, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate major in French, based on study in school and at least three years of college French, including some advanced work in literature, with evidence of ability to present reports and carry on discussion in French. Training in Latin corresponding to at least two years' study in school.

Major and Allied Subjects. Students may specialize either in Old French Philology and Literature, or in Modern French Literature. If the major field is Old French, advanced work in Modern French Literature may be offered as an allied subject and vice versa. The other allied subjects accepted by the Department are: any literature, ancient or modern; Comparative Philology; European History; Philosophy; History of Art.

Language Requirements. German, and either Italian or Spanish, to be tested by a general paper for the M.A., and a special paper for the Ph.D. Candidates for the M.A. may substitute for the Italian or Spanish examination evidence of extensive training in Mediaeval Latin or Advanced Classical Latin.

Program and Examination for the M.A. Candidates will normally offer two units of graduate work in French, and a third unit, graduate or undergraduate, in either French or an allied field. The Final Examination consists of a three-hour written examination and a one-hour oral examination, both in French.

Program and Examinations for the Ph.D. The Preliminary Examination consists of four papers written in French, and an oral examination conducted in English. Candidates whose

major field is Old French are expected to present evidence of a general knowledge of Modern French Literature and to take one examination in that field and vice versa. Before being admitted to the Preliminary Examination candidates must satisfy the Department that they have an adequate command of spoken French.

SEMINARS AND GRADUATE COURSES

The introductory course in Old French is offered in each year. Students wishing further work in Old French may attend graduate courses at the University of Pennsylvania. Two graduate seminars in Modern French Literature are given in each year, so arranged that the same one will not be given in successive years. Seminars are offered on selected topics in the following fields:

Modern French Literature

Miss Gilman:

French Poetic Theory of the Eighteenth and Nineteenth Centuries.

French Poetry of the Nineteenth Century.

Mr. Maurin:

French Literature of the Sixteenth Century.

French Poetry and Drama of the Twentieth Century.

Mr. Guggenheim:

French Novel.

History of French Thought.

Mr. Koch:

French Literature of the Seventeenth and Eighteenth Centuries.

The Department:

Semester I. Representative French Books.

Semester II. Problems and Methods of Research in French Literature.

All candidates for the M.A. and Ph.D. degrees in French are advised to elect this course if possible. The course is given in alternate years, and carries no credit.

Old French

Mr. Roach:

Introduction to Old French Philology and Literature.

Journal Club. In alternate years members of the Department and graduate students meet at intervals during the year to discuss research in progress, or recent books and articles of interest. Some of these meetings are held jointly with the Departments of Italian and Spanish.

SELECTED UNDERGRADUATE COURSES

301. *French Poetry from Villon to Valéry*: Miss Gilman, Mr. Maurin.
- [302. *French Drama*: Mr. Koch, Mr. Maurin.]
- [303. *The French Novel from 1700 to 1950*: Miss Gilman, Mr. Guggenheim.]
304. *French Essayists and Moralists*: Mr. Maurin, Mr. Koch.

Geology

PROFESSORS:

EDWARD H. WATSON, PH.D.,
Chairman

LINCOLN DRYDEN, PH.D.

DOROTHY WYCKOFF, PH.D.

INSTRUCTOR:

MARIE MORISAWA, M.A.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. A course in general geology and at least one course from each of the larger fields: physical geology and paleontologic-stratigraphic geology. Training in the allied sciences of physics, chemistry, biology and mathematics is highly desirable.

Major and Allied Subjects. Students may specialize in the fields typified by: Mineralogy-Petrology, Paleontology-Stratigraphy or Regional and Structural Geology. The allied subject for the

Ph.D. may be either another field of geology or any one of the other natural sciences, or mathematics; other subjects may be accepted in special cases.

Language Requirements. For the M.A. and the Ph.D., German and one other modern language, to be tested by the special type of examination.

Program and Examination for the M.A. Three units of work, of which one will usually be a special piece of field or laboratory research. The final examination consists of a four-hour written test and a one-hour oral.

Program and Examinations for the Ph.D. Candidates will spend a major proportion of their time on a research problem; ordinarily, this will involve a combination of field mapping or collecting, together with laboratory study. The number of units of class work to be taken will depend on the student's preparation. Preliminary examinations will test general background in geology, the candidate's special field, and either an allied subject or an additional field in geology.

SEMINARS AND GRADUATE COURSES

At least three seminars are offered each year, to be selected from the following:

Mr. Watson: *Petrology*

Selected subjects in the structure, physical chemistry and origin of the igneous rocks.

Miss Wyckoff: *Metamorphism*

The physical and chemical processes of metamorphism, accompanied by regional studies.

Mr. Watson, Miss Wyckoff: *Petrographic Methods*

This is largely a course in laboratory instruction and in general will accompany the seminars in petrology and metamorphism. Special techniques such as the universal stage, X-ray analysis, mechanical separations from rocks and petrofabric analysis will be taught.

Mr. Dryden: *Stratigraphy*

A study of selected theoretical and practical problems of correlation. Usually conducted in connection with a field problem.

Mr. Watson, Miss Wyckoff: *Structural Geology*

The analysis of regional structures, generally undertaken with reference to a field problem.

Mr. Watson: *Mineralogy*

The optical, chemical, and X-ray study of selected mineral groups.

Mr. Dryden: *Sedimentation*

A study of the origin of sedimentary rocks; their source, transportation, and deposition.

SELECTED UNDERGRADUATE COURSES

- [301. *Structural and Field Geology*: Mr. Watson.]
- 302. *Stratigraphy*: Mr. Dryden.
- 303. *Optical Mineralogy* (first semester) and *Petrology* (second semester): Miss Wyckoff, Mr. Watson.
- 304. *Cartography*: Mr. Watson, Miss Wyckoff.
- 305. *Geography*: Miss Wyckoff.
- 306. *The Development of Scientific Thought*: Miss Wyckoff, Miss Lehr, and other members of the Faculty.

German

PROFESSORS:

FRITZ MEZGER, PH.D.,
Chairman

MYRA RICHARDS JESSEN, PH.D.

ASSOCIATE PROFESSOR:

JOACHIM H. SEYPPEL, PH.D.

ASSISTANT PROFESSOR:

MARTHA M. DIEZ, M.A.

Special Requirements for Graduate Work

(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate major or minor in German, based on at least three years of college German, part of it in advanced courses; adequate reading from German Literature, preferably of the Mediaeval Period and the Eighteenth and

Nineteenth Centuries. All graduate students should normally have had some training in Latin; some knowledge of Greek is desirable for those who wish to major in Germanic Philology.

Major and Allied Subjects. Major Subjects: German Literature, Germanic Philology, Old Norse. Allied Subjects for those majoring in German Literature: Germanic Philology, any ancient or modern European Literature; any field of European History from the Middle Ages to the present time; Philosophy; History of Art. For those majoring in Germanic Philology: German Literature; Old Norse, any other Germanic, any Classical, Romance or Slavic Language. For those majoring in Old Norse, the same allied fields as for Germanic Philology with the substitution of Old Norse for Germanic Philology.

Irrespective of the elected allied subject, Ph.D. candidates majoring in German Literature, Germanic Philology or Old Norse must satisfy certain minimum intradepartmental requirements in German Literature and Germanic Philology. In general, the Department would advise German Literature as an allied subject for Germanic Philology or Old Norse, and Germanic Philology as an allied subject for German Literature.

Language Requirements. French, tested by the special type of examination, is required for the M.A. and the Ph.D. Knowledge of one or more Germanic dialects is required of Ph.D. candidates. M.A. candidates may substitute for this requirement another modern European language, Greek, or evidence of advanced training in Latin.

Program and Examination for the M.A. The normal program consists of one unit in German Literature, one in Germanic Philology and a third unit in either of these fields or in an allied field. The final examination is written and four hours in length.

Examination for the Ph.D. The Preliminary Examination consists normally of three written papers in the major field and one in an allied field and an oral examination.

SEMINARS AND GRADUATE COURSES

The courses offered are selected from the following:

German Literature

Mrs. Jessen:

The Classical Drama: Goethe and Schiller.

Topics from the German Drama of the Nineteenth Century.
 The Novelle in the Classical and Romantic Periods.
 The Novel of Realism.

Mr. Seyppel:

Poetry of the Classical and Romantic Periods.

Germanic Philology

Mr. Mezger:

Old High German and Middle High German Literature.
 The German Language.
 The English Language.
 Introduction to Germanic Philology.
 Comparative Germanic Grammar.

Old Norse

Reading of texts. Comparative Grammar.
 Saga and Edda.

SELECTED UNDERGRADUATE COURSES

- [302. *The Classics of the Nineteenth Century*: Mr. Seyppel.]
- 303. *German Literature from 1850 to 1940*: Mr. Mezger.
- 304. *Introduction to German Philology*: Mr. Mezger.
- [305. *Middle High German Literature*: Mr. Mezger.]
- 306. *The German "Novelle"*: Mrs. Jessen.
- [307. *The German Drama*: Mrs. Jessen.]

Greek

PROFESSOR:

RICHMOND LATTIMORE, PH.D.,
Chairman

ASSOCIATE PROFESSOR:

MABEL LANG, PH.D.

Special Requirements for Graduate Work
 (for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate major or minor in Greek, based on at least four years of college Greek, or the equivalent, with

representative reading from Greek literature and history which, in the opinion of the Department, provides an adequate basis for graduate work. It is expected that all graduate students in Greek should have some knowledge of Latin.

Allied Subjects. Any literature, ancient or modern; Ancient History; Ancient Philosophy, Classical Archaeology, Comparative Philology.

Language Requirements. French and German, to be tested by a general paper for the M.A. and by a special paper for the Ph.D.

Program and Examination for the M.A. The program consists of two units of graduate work in Greek and a third unit in an allied field. Before admission to the Final Examination candidates must pass an examination in Greek Sight Translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examinations for the Ph.D. Before admission to the Preliminary Examination candidates must pass a rigorous examination in Greek sight translation. The Preliminary Examination consists of four written papers, one of which shall be in an allied subject, and an oral examination. The fields from which the three major papers may be selected include: Epic Poetry, Lyric Poetry, Tragedy, Comedy, the orators, the historians, the Pre-Socratics, Plato, and various periods of Greek history.

SEMINARS AND GRADUATE COURSES

1957-1958:

Mr. Lattimore:

Greek Tragedy.

Miss Lang:

Greek Historians.

SELECTED UNDERGRADUATE COURSES

301. *Early Greek Literature: History and Criticism:* Mr. Lattimore, Miss Lang.

History

PROFESSORS:	CAROLINE ROBBINS, PH.D., ¹ <i>Chairman</i>
	FELIX GILBERT, PH.D.
ASSOCIATE PROFESSOR:	ARTHUR P. DUDDEN, PH.D.
ASSISTANT PROFESSORS:	RAYMOND F. BETTS, <i>D. d'Univ.</i> DAVID HERLIHY, PH.D.

PROFESSOR OF LATIN:	THOMAS ROBERT SHANNON BROUGHTON, PH.D.
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Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. A good undergraduate preparation in general history, the humanities, and the social sciences. Students who wish to work in seminars in the Ancient or Mediaeval fields must be able to read Latin. Those planning work in Modern European History must have a reading knowledge of one modern language, preferably French or German.

Major and Allied Subjects. Students may work in Ancient, Mediaeval or Modern European History as well as in English and American. Most subjects in the field of history, social science, literature and the humanities will be accepted as allied work provided the student's general preparation is acceptable to the Department.

Language Requirements. Two languages are required for the M.A. and for the Ph.D. degree. Preference is given to French and German and substitutions for either of these languages may be made only with the consent of the Department. For the M.A., students may take either the special or the general type of examination. For the Ph.D. the special type is required.

Program and Examination for the M.A. The program consists of three units of work in History or in History and an allied field. The Final Examination is written and usually four hours in length.

1. On leave of absence for semester II, 1957-1958.

Program and Examinations for the Ph.D. All students are expected at some time to take a seminar or course in which some aspects of historiography are studied. The preliminary examination tests the student's competence in four general fields of history, or in three fields of history and one field in an allied subject. For example, work in Mediaeval Literature, Art or Philosophy is usually recommended to students of Mediaeval History and one of these may be offered in the preliminary examination. Students whose dissertations are in American History will be required to take at least two fields in European History. Students specializing in English History must offer at least two fields of Mediaeval or Modern European History for examination.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the fullest possible choice for students over a two- or three-year period of study. Normally the same seminar will not meet two years in succession.

Mr. Broughton: *Ancient History*

See statement under the Department of Latin

Mediaeval and Renaissance History

Mr. Gilbert: Renaissance: Intellectual Problems in the Age of Machiavelli.

Mr. Herlihy: Mediaeval Institutions.

British History

Miss Robbins: Topics in the History of the Period 1649-1783.

American History

Mr. Dudden: Topics in the History of the United States.

Modern European History

Miss Robbins: Eighteenth Century Life and Thought.

[Mr. Gilbert: International Affairs in the Modern World.]

Journal Club. Students and members of the faculty in the Department together with those interested in the Departments of Politics and Economics meet four or five times a year to discuss research in progress, or recent books and projects of interest.

SELECTED UNDERGRADUATE COURSES

- 301. *History of Europe since 1890:* Mr. Gilbert, Mr. Betts.
- 303a. *The Expansion of the American Nation:* Mr. Dudden.
- 303b. *The American People in the Recent Past:* Mr. Dudden.
- 305. *Renaissance and Reformation:* Mr. Gilbert.
- 306a. *The Enlightenment:* Miss Robbins.
- 306b. *Great Historians:* The Department.

History of Art

PROFESSORS:

JOSEPH CURTIS SLOANE, M.F.A., Ph.D.,
Chairman

ALEXANDER COBURN SOPER, M.F.A., Ph.D.¹

RICHARD BERNHEIMER, Ph.D.

LECTURER:

HELEN JEANNETTE DOW, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. A good undergraduate preparation in art history is usually required, but exceptional students with training in other fields, such as history or philosophy, may be admitted. In such cases, the first year of graduate work will be spent in taking undergraduate courses offered by the Department. A reading knowledge of at least one modern language other than English, preferably French or German, is a virtual necessity.

Allied Subjects. With the permission of the Department, students may work in the fields of Classical Archaeology, History, Philosophy, Anthropology and Literature, all such programs

1. On leave of absence for semester II, 1957-1958.

being integrated with the area of the student's major interest. A special field in the History of Art may also be offered.

Language Requirements. Two modern languages are required for both the M.A. and Ph.D. degrees. Preference is given to German and French, but substitutions may be made with the approval of the Department. For the M.A., students may take either the special or the general type of examination. For the Ph.D. the special type is required.

Program and Examination for the M.A. Three units of graduate work are required for the degree, one of which may be in an allied field. An extended paper, usually growing out of the work of one seminar, is required in addition to a final examination. The examination may be either written (four hours), or written and oral (three hours—one hour), and will deal with a field of concentration determined by consultation with the Department.

Program and Examination for the Ph.D. A minimum of two full years of graduate work is customary before candidates may expect to take their Preliminary Examination. The examination consists usually of four papers dealing broadly with the history of art since the classical period. Emphasis is placed upon those fields in which the student has specialized, one of them being the period dealt with in the dissertation. One examination may be in an allied field, but the program for such work must be arranged with the major Department.

Properly qualified candidates, upon consultation with both Departments, may offer a joint program in Art History and Classical Archaeology.

SEMINARS AND GRADUATE COURSES

The subject matter of the seminars is arranged to give the student a wide choice of material over a two- or three-year period. Normally the seminars are changed every year. The emphasis is placed upon the methodology of research rather than any coverage of all fields of art history.

Mr. Sloane:

Problems in Nineteenth Century French Painting.

Mr. Soper:

The Far East.

Mr. Bernheimer:

Baroque Art.

Miss Dow:

To be announced.

Note: Seminars in Classical Archaeology are open to properly qualified students.

Journal Club. Meetings of the faculty and students to hear reports on recent books, special pieces of research, and similar matters are held from time to time during the year.

SELECTED UNDERGRADUATE COURSES

- 201. *Italian Art*: Mr. Sloane, Miss Dow.
- 202. *Medieval Art*: Mr. Soper, Mr. Bernheimer.
- 203a. *Northern Renaissance Art*: Mr. Bernheimer.
- 204b. *Northern Baroque Art*: Mr. Bernheimer.
- 301a.* *Art of Japan*: Mr. Soper.
- 302. *Modern Art*: Mr. Soper, Mr. Sloane.

History of Religion

PROFESSOR OF LATIN: AGNES KIRSOPP MICHELS, PH.D.

PROFESSOR OF PHILOSOPHY

AND RELIGION:

GEDDES MACGREGOR, B.D., LL.B.,
D.PHIL., D.ès L., F.R.S.L.

No graduate work is offered in History of Religion.

The courses listed are open to graduate students and may be taken for graduate credit with the permission of the major department.

UNDERGRADUATE COURSES

- 103. *Literary History of the Bible*: Mrs. Michels.

The history of the Bible, with special emphasis on analysis of text and on literary forms.

201a. *Comparative Religion*: Mr. MacGregor.

An historical study in outline of the major religions of the world, comparatively considered. These include Hinduism, Buddhism, Judaism and Islam.

201b. *History of Christian Thought*: Mr. MacGregor.

An historical study of the most important Christian ideas from early times to the present. External events are considered only to the extent that they help in understanding the development of Christian thought and belief.

203a. *Philosophy of Religion*: Mr. MacGregor.

This course is also listed as Philosophy 203a.

203b. *Mediaeval Philosophy*: Mr. MacGregor.

This course is also listed as Philosophy 203b.

Italian

PROFESSOR:

ANGELINE H. LOGRASSO, PH.D.,

Chairman

Appointment to be announced

Special Requirements for Graduate Work

(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate major or minor in Italian or its equivalent in ability to read, write and speak Italian together with a knowledge of Italian classical literature which, in the opinion of the Department, provides an adequate basis for graduate work.

Allied Subjects. Any language or literature, European History, History of Art, Philosophy, Music, Political Science; other fields of importance for the candidate's work will be considered.

Language Requirements. French and German, to be tested by a general paper for the M.A. and a special paper for the Ph.D. In exceptional cases, determined by the special interests of the stu-

dent, Latin or another language may be substituted for one of the two required languages.

Program and Examination for the M.A. Three units of work in Italian or in Italian and an allied field. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examination for the Ph.D. The Preliminary Examination consists of four written papers and an oral examination. One paper must be in the field of Provençal, preferably Provençal and Old French. One paper may be in an allied field determined by the special interests of the student. Before taking the Preliminary Examination the candidate must demonstrate proficiency in spoken Italian.

SEMINARS AND GRADUATE COURSES

The seminar given is selected from the following. Normally the same seminar does not meet two years in succession and is usually not repeated within a three-year period.

Miss Lograsso:

Provençal.

Old Italian.

Dante.

Literary Criticism.

Studies in Italian Romanticism.

Manzoni.

SELECTED UNDERGRADUATE COURSES

102C.* *Dante in English Translation:* Miss Lograsso.

The New Life and Divine Comedy.

[103C.* *Literature of the Italian Renaissance in English Translation:* Miss Lograsso.]

201. *Classics in Italian Literature:* Miss Lograsso.

Reading and explanation of texts, with a study of literary history.

[202. *Dante*: Miss Lograsso.]

The *Vita Nuova* and *Divina Commedia*, with some attention to the minor works. This course is open to anyone with a reading knowledge of Italian.

[203. *Intermediate Course in the Italian Language*: Instructor to be announced.]

[302C. *The Italian Language*: Miss Lograsso.]

Advanced work in composition.

[303. *Italian Literature of the Rinascimento*: Miss Lograsso.]

[304. *Italian Literature of the Romantic Period*: Instructor to be announced.]

Latin

PROFESSORS: THOMAS ROBERT SHANNON BROUGHTON,
PH.D., *Chairman*

BERTHE MARIE MARTI, PH.D.

AGNES KIRSOPP MICHELS, PH.D.

VISITING PROFESSOR: LILY ROSS TAYLOR, PH.D., LITT.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate major or minor in Latin, based on study in school and at least three years of college Latin, part of it in advanced courses; representative reading from Latin Literature of the classical period which, in the opinion of the Department, provides an adequate basis for graduate work. It is desirable that all graduate students in Latin should have some knowledge of Greek.

Allied Subjects. Any literature, ancient or modern, including Mediaeval Latin Literature; Ancient History and, for students whose major interest is Mediaeval Latin, Mediaeval History; Classical Archaeology; Classical Philology. For most students the Department recommends Greek as the allied subject.

Language Requirements. French and German, to be tested by a general paper for the M.A. and a special paper for the Ph.D. In addition a reading knowledge of Greek is required for the Ph.D.

Program and Examination for the M.A. Candidates will normally offer two units of graduate work in Latin and a third unit, graduate or undergraduate, in an allied field. Before admission to the Final Examination candidates must pass an examination in Latin Sight Translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examinations for the Ph.D. Before admission to the Preliminary Examination candidates must pass a rigorous examination in Latin sight translation. Candidates who do not offer Greek as an allied field must pass an examination in sight translation of Greek before they are admitted to the Final Examination. The Preliminary Examination consists of four written papers and an oral examination. Candidates whose major interest is classical Latin are expected to offer in their Preliminary Examination Latin Literature of the classical period (Livius Andronicus to Tacitus) and, in most cases, one subsidiary field within the major—for instance a period of Roman History, Roman Religion, the History of Classical Scholarship, Epigraphy, or Palaeography. In addition candidates are expected to offer an allied field (usually Greek). Candidates whose major interest is Mediaeval Latin are expected to show in their Preliminary Examination a broad knowledge of classical Latin Literature, but the emphasis in the examinations will be determined by the special interests of the student.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Mr. Broughton and Miss Taylor:

The Augustan Empire.

History and Literature of the Second Century B.C.

Cicero's Correspondence.

Latin Inscriptions.

Miss Marti:

History of Classical Scholarship.

Literature of the Twelfth Century.

Latin Palaeography and Textual Criticism.

Literature of the Silver Age.

Mrs. Michels:

Lucretius and Catullus.

Augustan Poetry.

Vergil's Aeneid.

Roman Satire.

SELECTED UNDERGRADUATE COURSES

[301a. *Vergil's Aeneid*: Mrs. Michels.]

[301b. *Tacitus and Livy*: Mr. Broughton.]

302a. *Lucretius and Vergil's Georgics*: Mrs. Michels.

302b. *Cicero and Caesar*: Mr. Broughton.

Mathematics

PROFESSORS:

JOHN CORNING OXTOBY, M.A.,
Chairman

MARGUERITE LEHR, PH.D.

ASSOCIATE PROFESSOR:

HAROLD W. KUHN, PH.D.

Special Requirements for Graduate Work

(for the general requirements, see pp. 25-30)

Prerequisites. A good undergraduate preparation in Mathematics, or in Mathematics and Physics.

Major and Allied Subjects. Students may specialize in any of the broad divisions of mathematics: algebra, analysis, geometry, or mathematical physics, but are expected also to acquire a well rounded knowledge of Mathematics. Certain courses in Physics, Chemistry, or Philosophy (logic) are accepted as allied work.

Language Requirements. French and German, tested by the special type of examination for both the M.A. and the Ph.D.

Program and Examination for the M.A. The program consists of three units of work in mathematics, or in mathematics and an allied field. Advanced undergraduate courses which supplement the student's preparation may under certain conditions be taken for graduate credit. The final examination is usually oral and one hour in length.

Program and Examinations for the Ph.D. Candidates will take such courses and seminars as are needed to provide a sufficiently broad foundation. As they progress they will devote an increasing

proportion of their time to individual study and research under the direction of a member of the Department. The Preliminary Examination is taken after the student is well advanced and usually consists of three or four written examinations intended to test the candidate's breadth of knowledge and understanding of the structure of mathematics as a whole. It may or may not include an oral examination. The Final Examination is oral and is devoted to the candidate's special field and the subject of the dissertation.

SEMINARS AND GRADUATE COURSES

At least three graduate courses or seminars are offered each year. Additional courses of directed reading and research can be arranged. The seminars offered in any year are selected to meet the needs of the individual students. Some may be offered for one semester only. They are usually selected from the following:

Mr. Kuhn:

Combinatorial Topology.

Galois Theory.

Theory of Functions of a Complex Variable.

Theory of Games.

Miss Lehr:

Abstract Algebra.

Differential Geometry.

Probability Theory.

Projective Geometry and Lattice Theory.

Theory of Estimation and Tests of Hypothesis.

Mr. Oxtoby:

Ergodic Theory.

Mathematical Physics.

Measure Theory.

Point Set Topology.

Theory of Functions of a Real Variable.

Journal Club. A joint Mathematical Colloquium with Haverford and Swarthmore Colleges and the University of Pennsylvania meets approximately every two weeks for the presentation of current research by local or visiting mathematicians.

SELECTED UNDERGRADUATE COURSES

301. *Advanced Calculus*: Mr. Kuhn.
 302b. *Introduction to Geometric Theories*: Miss Lehr.
 303b. *Introduction to Abstract Algebra*: Miss Lehr.
 [304a. *Theory of Probability and Statistics*: Mr. Kuhn.]
 310. *Theory of Functions of a Complex Variable*: Mr. Oxtoby.
 [311b. *Differential Equations*: Mr. Oxtoby.]

Music

- ASSOCIATE PROFESSOR: ROBERT L. GOODALE, A.B., B.Mus.,
 A.A.G.O., *Chairman*
 ASSISTANT PROFESSOR: SYLVIA W. KENNEY, PH.D.
 LECTURER AND DIRECTOR
 OF ENSEMBLE GROUPS: AGI JAMBOR

DIRECTOR OF ORCHESTRA: WILLIAM REESE, PH.D.

The Department offers major work for the M.A. but not for the Ph.D. degree.

Special Requirements for Graduate Work
 (for the general requirements, see pp. 25-30)

Prerequisites. Two years of Harmony and Counterpoint and analysis, three years of History and Appreciation of Music, of which at least one should be in an advanced course, and a reading knowledge of one modern language, preferably German. Candidates for the M.A. degree must have a sufficient knowledge of Pianoforte or Organ playing to be able to play music of the technical difficulty of a Bach Figured Chorale.

Allied Subjects. Any modern language or literature, History, History of Art, History of Religion, Philosophy or Physics (Sound).

Language Requirements. Two modern languages are required for all candidates for the M.A. degree, preference being given to German and French. The languages are tested by the general type of paper.

Program and Examination for the M.A. The program consists of three units of work in Music. The Final Examination is written and four hours in length.

SEMINARS AND GRADUATE COURSES

Miss Kenney: *History of Music*

A study of a special period or subject to be selected in accordance with the interests of the students.

Mr. Goodale: *Free Composition*

SELECTED UNDERGRADUATE COURSES

- 201. *The Romantic Period*: Miss Kenney.
- 202. *Advanced Theory and Analysis*: Mr. Goodale.
- 203a. *Bach*: Mme. Jambor.
- 203b. *The Classical Period*: Mme. Jambor.
- [301a. *Opera and Music Drama*: Miss Kenney.]
- [301b. *Contemporary Music*: Mr. Goodale.]
- 302a. *Early and Mediaeval Music*: Miss Kenney.
- 302b. *Renaissance and Baroque Music*: Miss Kenney.
- 303a. *Orchestration*: Mr. Goodale.

Philosophy

PROFESSORS:

MILTON CHARLES NAHM, B.LITT.,
PH.D., *Chairman*

GEDDES MACGREGOR, B.D., LL.B.,
D.PHIL., *D. ès L.*, F.R.S.L.

JOSÉ MARÍA FERRATER MORA,¹
Licenciado

ISABEL SCRIBNER STEARNS, PH.D.

VISITING PROFESSOR:

PAUL SCHRECKER, PH.D., LL.D.

ASSOCIATE PROFESSOR:

HUGUES LEBLANC, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. In general, an undergraduate major in Philosophy. Students whose undergraduate training does not include a major in Philosophy or whose undergraduate major work is not adequate may be required to take such undergraduate courses as the Department considers necessary.

1. On leave of absence for semester II, 1957-1958.

Major and Allied Subjects. Students may major in either historical or systematic branches of Philosophy. Allied subjects: another field of Philosophy, Biology, Chemistry, Economics, English, Greek, History, Latin, Mathematics, Physics, Political Science, Psychology, Sociology and Anthropology.

Language Requirements. French and German. In special cases, with the recommendation of the Department, a substitution may be made of one other modern language. For the M.A., students may take either the special or the general type of examination; for the Ph.D., the special type is required.

Program and Examination for the M.A. Three units of work in Philosophy or in Philosophy and an allied field. The Final Examination is usually written and four hours in length.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers in the major and allied fields and an oral examination.

SEMINARS AND GRADUATE COURSES

A minimum of three seminars, historical and systematic, is offered each year. The sequence of the seminars listed below will be adjusted according to the needs of the students.

Mr. Nahm:

Kant.

Critique of Pure Reason.

Aesthetics.

A systematic and historical analysis of problems in the philosophy of art.

Ethics.

The Ethics of Kant and Hegel; or The History of English Ethics; or Henry Sidgwick and Contemporary British Moralists.

Miss Stearns:

Plotinus.

A detailed study of the *Enneads*.

Epistemology.

An historical and systematic study of the function of reason and other agencies in knowledge.

Metaphysics.

A study of such problems as time, the one and the many, the individual, appearance and reality.

Mr. Leblanc:

British Empiricism.

The philosophies of Locke, Berkeley, and Hume.

Logic.

A systematic study of deductive or inductive logic.

The Theory of Meaning.

Detailed study of meaning in the light of developments in modern logic.

Mr. Schrecker:

[*Continental Rationalism in the Seventeenth Century.*]

The Scientific Revolution; Descartes and Cartesianism;
Malebranche; Spinoza; Leibniz.

Hegel and the Hegelian Schools.

Study of the *Phenomenology of Spirit* and of Selections from Feuerbach, Marx and other writers.

Journal Club. Students have the privilege of becoming auxiliary members of the Fullerton Club, which meets each month at the Deanery, and at which papers are read by members of the faculties of Bryn Mawr, Swarthmore, Haverford and other nearby colleges and the University of Pennsylvania.

SELECTED UNDERGRADUATE COURSES

201a. *German Idealism*: Mr. Ferrater Mora.

202a. *Logic*: Mr. Leblanc.

203a. *Philosophy of Religion*: Mr. MacGregor.

203b. *Mediaeval Philosophy*: Mr. MacGregor.

301a. *Aesthetics*: Mr. Nahm.

301b. *Theory of Knowledge*: Mr. Leblanc.

302a. *Plato*: Miss Stearns.

[302b. *Philosophy of History*: Mr. Ferrater Mora.]

304b. *Aristotle*: Mr. Ferrater Mora.

Physics

PROFESSOR:

WALTER C. MICHELS, PH.D.,
Chairman

ASSOCIATE PROFESSORS:

ROSALIE C. HOYT, PH.D.
JOHN R. PRUETT, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate major in Physics or in a field of study closely allied to Physics (e.g. Mathematics, Chemistry, En-

gineering). Students who have not majored in Physics will usually find it necessary to take some undergraduate courses before entering graduate seminars.

Allied Subjects. Candidates for the degree of Doctor of Philosophy are in general expected to offer Mathematics as an allied subject. They may substitute Chemistry, Biology, or Geology if their mathematical training is accepted as adequate for their work in Physics.

Language Requirement. The two languages required for the M.A. and Ph.D. degrees will ordinarily be chosen by the student to include one each from two of the following categories: (a) German; (b) Russian; (c) French, Italian, or Spanish. The examination will be of the special type.

Program and Examination for the M.A. An oral qualifying examination must be passed before the student is admitted to candidacy. The subject matter of the examination will include only material ordinarily covered in undergraduate college physics courses, but the student will be expected to handle this material on a reasonably mature level.

Each candidate is expected to have completed Physics 304 or its equivalent. The three units of work offered for the degree will ordinarily include one unit of experimental physics and at least one graduate seminar in theoretical physics. The paper will usually consist of a report on work done in connection with the unit of experimental physics.

The M.A. examination is a one-hour oral examination.

Program and Examination for the Ph.D. Each candidate must have completed Physics 304 or its equivalent and have passed the oral qualifying examination described above before being recommended for candidacy.

The Preliminary Examination is intended to test the candidate's general background and to determine whether this background is broad and deep enough to serve as a preparation for original research work in a specialized field. In general, two years of full or part-time graduate work should prepare the student for this examination and candidates for the Ph.D. are urged to submit themselves for examination at this stage of their work, unless informed that weaknesses in their undergraduate preparation make a delay desirable. The examination will consist of two four-hour written examinations, one problem

set, and an oral examination lasting approximately one hour. Each of the two four-hour examinations will cover one of the following fields of physics, to be chosen by the Department: (1) Classical Mechanics, including Relativity. (2) Thermodynamics and Statistical Mechanics. (3) Electricity and Magnetism. (4) Wave Phenomena, including both Optical and Acoustical Waves. (5) Quantum Mechanics. (6) Atomic and Nuclear Structure. The student devotes approximately 12 hours to direct work on the problem set over a three-day period. Any books, periodicals, notes, etc. may be used in connection with the problem set. The oral examination is devoted to general physics.

Each full-time graduate student is expected to carry on some experimental work each year. Unless the candidate has demonstrated adequate acquaintance with experimental physics in other ways, the research leading to the dissertation must be, at least in part, experimental.

SEMINARS

One or two graduate seminars in theoretical physics are offered each year. In addition, a seminar in experimental physics is arranged individually for students desiring it, and generally serves as an introduction to a research problem.

Mr. Michels, Miss Hoyt, Mr. Pruett: *Experimental Physics*.

Miss Hoyt: *Theoretical Physics*

1957-1958: *Quantum Mechanics*. Necessity for the quantum hypothesis. The Schroedinger and Heisenberg formulations with applications in atomic structure. The Dirac approach with applications to Relativistic Electron Theory and the Quantum Theory of Radiation. Prerequisite: An advanced undergraduate course in Mechanics or in Theoretical Physics.

Mr. Pruett:

1957-1958: *Nuclear Physics*. An introductory study of classical nuclear physics followed by applications of Quantum Mechanics to nuclear problems and associated high energy phenomena. Some Quantum Electrodynamics and Meson Theory will be included. Prerequisite: Quantum Mechanics or its equivalent.

Mr. Michels:

1958-1959: *Physics of the Solid State*. Classification and characteristics of solids, theory of mechanical, electrical,

thermal and magnetic properties. Prerequisites: Quantum Mechanics and Electromagnetic Theory. Either may be taken concurrently.

Mr. Pruett:

1958-1959: *Electromagnetic Theory*. Maxwell's Equations, applications to waves subject to various boundary conditions, transmission lines, wave guides, radiating systems. Prerequisite: An advanced undergraduate course in Electricity and Magnetism or in Theoretical Physics.

Miss Hoyt:

1959-1960: *Chemical Physics*. Chemical and phase equilibria, interatomic and intermolecular forces, chemical bonding, molecular structure. Prerequisite: Quantum Mechanics.

Colloquium. All members of the Department and all graduate students meet bi-weekly for the discussion of current problems in physics.

SELECTED UNDERGRADUATE COURSES

- 201a. *Introduction to Electricity and Magnetism*: Miss Hoyt.
- 201b. *Introduction to Optics*: Mr. Michels.
- 301a. *Classical and Statistical Mechanics*: Mr. Michels.
- 302b. *Atomic and Nuclear Structure*: Mr. Michels.
- 304. *Introduction to Theoretical Physics*: Mr. Pruett.
- 305c. *Physical Measurements*: Mr. Pruett.
- [351.* *Application of Physics to Biology and Chemistry*: Miss Hoyt.]

Political Science

*The Caroline McCormick Slade Department
of Political Science*

- PROFESSOR: ROGER HEWES WELLS, PH.D.,
Chairman
- ASSOCIATE PROFESSORS: PETER BACHRACH, PH.D.¹
GERTRUDE C. K. LEIGHTON, A.B., LL.B.¹
- ASSISTANT PROFESSOR: ROBERT A. RUPEN, PH.D.
- INSTRUCTOR: LOUISE HARNED, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

1. On sabbatical leave for the year 1957-1958.

Prerequisites. Good undergraduate training in Political Science and related subjects.

Major and Allied Fields. The major fields in Political Science are Political Theory, Comparative Government, American Government and Constitutional Law, International Law and Organization, and Public Administration. Allied fields may be chosen in Anthropology and Sociology, Economics, History, Philosophy or Psychology. Candidates for the Ph.D. are expected to prepare themselves in four fields, one of which may be an allied field.

Language Requirements. Two modern languages, preferably French and German, are tested by written examinations. The M.A. language examinations are of the general or special type; those for the Ph.D. are of the special type.

Program and Examination for the M.A. The program consists of three units of work in Political Science but a unit from an allied field may be substituted for one of these. The Final Examination is written.

Program and Examination for the Ph.D. Candidates are expected to offer four fields, one of them being the field in which the dissertation is done. The other three fields are tested by preliminary written and oral examinations. The fourth field and the dissertation are covered in the Final Oral Examination.

SEMINARS

Seven seminars are offered in the major fields of Political Science, three being given each year. Those which are not bracketed are scheduled for 1957-1958.

Mr. Wells:

Topics in Western Political Thought: Luther to Locke.
[*Comparative Government: Problems of Federalism.*]
[*Problems of Public Administration.*]

Mr. Bachrach:

[*American Constitutional Law.*]

Miss Leighton:

[*The World Community and Law.*]

Mr. Rupen:

Nationalism and Revolution.

Miss Harned:

Topics in American Government.

Journal Club. Students are expected to attend the History, Economics and Political Science Journal Club. This meets four or five times during the year to discuss research in progress, recent books, and other topics of scholarly interest.

SELECTED UNDERGRADUATE COURSES

304a. *Public Administration:* Mr. Wells.

303b. *Comparative Government: France and Germany:* Mr. Wells.

Psychology

PROFESSOR:

RACHEL DUNAWAY COX, PH.D.

ASSOCIATE PROFESSORS:

M. E. BITTERMAN, PH.D., *Chairman*

DONALD ROBERT BROWN, PH.D.¹

ROBERT SIMON DAVIDON, PH.D.

INSTRUCTOR:

LISE WERTHEIMER, A.B.

Special Requirements for Graduate Work

(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate training in Psychology including courses in statistics, experimental psychology with laboratory, and personality is recommended. In special cases, outstanding applicants with training only in related fields may be acceptable. All applicants who are residing in the United States at the time of application must submit a score on the Miller Analogies Test to the Graduate Office.

Major and Allied Subjects. Students may specialize in General-Experimental Psychology, Personality-Abnormal Psychology, Mental Tests and Measurements, Social Psychology, or Clinical Psychology. (In the case of clinical majors, the candidate must spend the third year at an approved institution as a psycho-

1. On sabbatical leave for the year 1957-1958.

logical intern). The allied subjects for the Ph.D. may be chosen from the fields of Anthropology, Biology, Education, Mathematics, Philosophy, Political Science, Physics, Sociology, or a branch of Psychology other than the one chosen as the major field. Other combinations may be accepted with the approval of the Graduate Committee and on the recommendation of the Department. The specialized work with children leading to the advanced degrees is concentrated in the Department of Education.

Language Requirements. French and German must be offered by candidates for the Ph.D. Statistics may be substituted for one of these languages by M.A. candidates. For the M.A., students may take either the special or the general type of examination. For the Ph.D., the special type is required.

Program and Examination for the M.A. Each new student must take an assessment examination in Psychology. If performance on this examination warrants, the candidate is admitted to graduate seminars. If performance is lower than the criteria, the candidate is asked to take either specific advanced undergraduate courses or, depending on the circumstances, attend a Comprehensive Seminar in Historical and Systematic Psychology.

Sometime before final acceptance of a Master's paper, the candidate must pass a qualifying examination in Theoretical Psychology, Methods of Investigation, and Statistics.

The final examination is oral and one hour in length.

Program and Examination for the Ph.D. The assessment examination as described above must be taken by all candidates for the Ph.D. who have not taken the examination previously.

Candidates will normally be expected to devote a large portion of their time to original research under supervision of a member of the Department. A qualifying examination in Statistics must precede the Preliminary Examination which will be taken before acceptance of the dissertation. The Preliminary Examination consists of four written papers in the fields of Theoretical Psychology, Methods of Investigation, and two special fields. The Final Examination (oral) is devoted to the candidate's dissertation plus the general field of his major.

SEMINARS AND GRADUATE COURSES

Usually one of two semester courses is offered each year by each instructor, according to the needs and interests of the graduate students.

Mr. Bitterman:

Learning Theory.
Comparative Psychology.
Physiological Psychology.
Psychological Methods in Industry.

Mr. Brown:

Personality Theory.
Perception and Personality.
Clinical Psychopathology.
Emotion and Motivation.
Social Psychology.

Mrs. Cox:

Advanced Clinical Evaluation (including the Projective Techniques).
Problems of Child Development.

For other seminars, see Department of Education.

Mr. Davidon:

History of Psychology.
Perception.
Experimental Design.
Conceptual Processes.
Advanced Statistics.

Miss Wertheimer:

Systematic Psychology, Perception, Cognition and Thinking.

Staff (and members of other departments):

Research Methods in the Behavioral Sciences.

SELECTED UNDERGRADUATE COURSES

- 204. *Experimental Methods and Statistics:* Mr. Davidon.
- 301a, b. *Advanced Experimental Psychology:* Staff.
- 302a. *Psychology of the Normal Personality:* Miss Wertheimer.
- 302b. *Psychology of the Abnormal Personality.*
- 303a. *Learning and Thinking:* Mr. Bitterman.

Russian

ASSOCIATE PROFESSOR: FRANCES DE GRAAFF, PH.D.,
Chairman

LECTURER: OLGA LANG
(Graduate, University of Moscow)

PROFESSOR OF
ENGLISH: BETTINA LINN, M.A.

The Department of Russian does not at present provide instruction in Russian as a major subject for the M.A. or the Ph.D. In various departments Russian is accepted as an allied subject at least for the M.A.

UNDERGRADUATE COURSES

1. *Elementary Russian*: Miss de Graaff.

The basic grammar is learned and enough vocabulary to enable the student to speak and understand simple Russian and to read simple texts.

[201. *Readings in Russian Literature*.]

Representative writers of the nineteenth century. Conducted mostly in Russian.

202.* *General Readings in Russian*: Mrs. Lang.

Primarily intended for students who want a good reading knowledge of the language, but are not majoring in Russian. The reading texts cover a wide variety of subject matter, such as history, economics, politics, science, as well as literature. Some lectures in Russian about the cultural background of Russia are included, with oral reports by the students and discussion of specific topics in Russian. Prerequisite: two years of Russian.

[203.* *Russian Literature in Translation*: Miss Linn.]

The leading Russian writers of the nineteenth century in translations. Students registering for the course should read in the preceding summer the following novels: Dostoevsky's *Crime and Punishment*, Tolstoi's *War and Peace*, and two of Turgenev's novels,

An advanced course, given in Russian, is selected from the following:

- 301. *Russian Poetry of the Nineteenth Century*: Miss de Graaff.
- 302. *Pushkin and His Time*: Miss de Graaff.
- 303. *Russian Literature of the Twentieth Century*: Miss de Graaff.
- 304. *Social Trends in Nineteenth Century Russian Literature*: Miss de Graaff.

Social Work and Social Research

*The Carola Woerishoffer Graduate Department
of Social Work and Social Research*

PROFESSOR:	KATHERINE D. K. LOWER, PH.D., <i>Director of the Department</i>
ASSOCIATE PROFESSORS:	HERTHA KRAUS, PH.D. MARY MARGARET ZENDER, M.A., M.S.S.
LECTURERS:	MURIEL JANET GAYFORD, M.S.P.A. DEMETRIUS IATRIDIS, PH.D. RUTH OLIVER STALLFORT, M.S. JEANNE L. WERNITZ, PH.D.
SPECIAL LECTURERS:	WALTER C. KLINGENSMITH, M.D. ELEANOR ALICE STEELE, M.D. ANDREW WATSON, M.D.

PROFESSOR OF EDUCATION AND PSYCHOLOGY:	RACHEL DUNAWAY COX, PH.D.
ASSOCIATE PROFESSOR OF SOCIOLOGY:	EUGENE V. SCHNEIDER, PH.D.
ASSOCIATE PROFESSOR OF PSYCHOLOGY:	ROBERT S. DAVIDON, PH.D.

Bryn Mawr awards the degrees* of Doctor of Philosophy and Master of Social Service in the Graduate Department of Social Work and Social Research. The Department is open to qualified graduates in liberal arts courses of colleges or universities of recognized standing.

Prerequisites. Psychology and the social sciences, including Economics, Political Science, History, Sociology and Anthropology provide basic preparation. At least one general course in each field is important, as well as concentration in one as a major field. A basic course in Statistics is also desirable. In general, applicants for the Ph.D. are expected to have completed a Master's degree, or its equivalent, in social work and at least two years of professional experience. Exceptions to this general policy may be made.

Major and Allied Fields. The major and allied fields may be selected from the field of Social Work. At the same time, some work in one of the allied fields of Sociology, Psychology, Anthropology or Economics, selected with a view to its contribution to the major field of the student's interest, is required. For the degree, substantial work in Statistics is also required.

Language Requirements. By special action of the Faculty, a reading knowledge of only one language is required for the Ph.D. in Social Work. The language required is French, but in special cases another language may be substituted.

Program and Examinations. The program of study is individually planned to cover major and allied fields. Seven units of work will normally be suggested as a minimum. The Preliminary Examinations in major and allied fields consist of four written papers and an oral examination testing the candidate's general knowledge of the fields.

A *Bulletin* of the Department is issued biennially, containing descriptions of requirements and courses offered. A copy may be had by writing to the Director of the Department.

* The prerequisites and program required for the degree of Master of Social Service are described on pp. 29-30. The statement here refers only to the Ph.D. in Social Work and Social Research.

Sociology and Anthropology

PROFESSOR:	FREDERICA DE LAGUNA, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR:	EUGENE V. SCHNEIDER, PH.D.
VISITING LECTURER:	To be announced.
LECTURER:	EDWARD B. HARPER, A.B.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. A good undergraduate preparation in Sociology and/or Anthropology. Some undergraduate training in History, or Psychology, or in another social science, is also desirable. Students whose undergraduate training is not entirely adequate may be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

Major and Allied Subjects. Students will specialize in either Sociology or Anthropology, but will be expected to do some work in the other field. For other allied subjects, see the special requirements for the Ph.D. in Anthropology, and for the Ph.D. in Sociology.

Language Requirements. Candidates for the Ph.D. in either Sociology or Anthropology, and for the M.A. with specialization in Anthropology, must offer two modern languages, preference being given to German as one of these. For the M.A. with specialization in Sociology, one modern language and Statistics may be offered, instead of two languages. The languages are tested by the special type of examination.

Program and Examination for the M.A. The program consists of three units of work, of which one must be taken in the allied field within the Department. The final examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

Program and Examinations for the Ph.D. All students are expected to take the equivalent of at least one year's graduate work at another institution approved by the Department. (For exchange arrangements with other institutions, see page 24.) The Preliminary Examinations will consist of four three-hour written papers and an oral examination of one hour.

The Preliminary Examinations for candidates for the *Ph.D. in Anthropology* will be in (1) Anthropological Theory and History of Anthropology, (2) the allied field within the Department, such as Sociological Theory, Comparative Social Institutions, etc., or an allied field outside the Department, such as Social Psychology, (3) and (4) two examinations in more specialized fields in Anthropology, such as Primitive Religion, Cultural Dynamics, Ethnography or Archaeology of one major Culture Area, etc. In addition, students will be expected to be familiar with the principles of two of the following subjects: Physical Anthropology and/or Human Paleontology, Prehistoric or American Archaeology, Linguistics. These requirements may be satisfied by courses taken at any institution approved by the Department, or competence may be tested by examination. The Preliminary Examinations for candidates for the *Ph.D. in Sociology* will be in (1) Sociological Theory, (2) Comparative Social Institutions, (3) an allied field within the Department, such as Anthropological Theory, Cultural Dynamics, etc., or an allied field outside the Department, such as Social Psychology, Economics, Political Science, History, (4) a specialized subject within the field of Sociology. In addition, the student will be expected to be familiar with Statistics and the methods of Social Research.

SEMINARS AND GRADUATE COURSES

Depending upon the needs of the students these may be offered either as full year courses (1 unit of credit), or as semester courses ($\frac{1}{2}$ unit of credit). The seminars offered are selected from the following:

Miss de Laguna:

- Primitive Economics.*
- Primitive Religion.*
- American Indian Culture History.*
- Cultural Dynamics.*
- Culture and Personality.*

Mr. Schneider:

- Sociological Theory.*
- Comparative Social Institutions.*
- Sociology of Knowledge.*
- Dynamics of Social Change.*
- Social Stratification and Minority Groups.*

Social Psychology—see Psychology.

Social Research—see Social Work and Social Research.

SELECTED UNDERGRADUATE COURSES

203a. *Primitive Culture*: Mr. Harper.

205b. *Primitive Society*: Mr. Harper.

310. *Social and Cultural Theory*: Miss de Laguna, Mr. Schneider.

Spanish

DEAN OF THE COLLEGE: DOROTHY NEPPER MARSHALL, PH.D.

PROFESSOR: JOSÉ MARÍA FERRATER MORA,¹
Licenciado

ASSOCIATE PROFESSOR: JUAN MARICHAL, PH.D.,
Chairman

VISITING LECTURERS: MANUEL ASENSIO, PH.D.
CLAUDIO GUILLÉN, PH.D.

INSTRUCTORS: HOPE K. GOODALE, M.A.
SOLEDAD S. MARICHAL, M.A.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate major in Spanish; representative reading from Spanish Literature of the Middle Ages, Golden Age, and Contemporary period. Spanish-American Literature may be offered in addition.

Allied Subjects. Any literature, ancient or modern, including Mediaeval Latin Literature; European or Spanish-American History; Classical or Romance Philology.

Language Requirements. For the M.A. two romance languages, other than Spanish, or one romance language and German, to be tested by a general paper. For the Ph.D. German and French to be tested by a special paper; in special cases the Department may accept other languages. The Ph.D. candidate's preparation must give evidence of adequate knowledge of Latin; in cases when the student's preparation is insufficient she will have to include the study of Latin in her graduate program.

1. On leave of absence for semester II, 1957-1958.

Program and Examination for the M.A. The program consists of two units of graduate work in Spanish and a third unit, graduate or undergraduate, in an allied field. Before admission to the Final Examination candidates must prove their ability to speak Spanish. The Final Examination consists of a three-hour written part and an oral of one hour.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. Suitable related fields should be discussed as early as possible with the member of the Department with whom the candidate plans to work on her dissertation.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study. Normally the same seminar will not be given two years in succession. Two from among the following will be given every year.

Mr. Ferrater Mora:

Twentieth Century Spanish Literature.

The Eighteenth Century.

Spanish Drama of the Golden Age.

Mr. Guillén (1957-1958):

Studies in Spanish Poetry.

Mr. Marichal:

Studies in Renaissance Literature.

Studies in Baroque Prose.

Spanish Romanticism.

Studies in Spanish Autobiographical Literature.

SELECTED UNDERGRADUATE COURSES

302b. *The Spanish Lyric*: Mrs. Marichal.

[303. *The Spanish Novel of the Nineteenth and Twentieth Centuries*: Mrs. Marshall, Mr. Marichal.]

[304a. *The Age of Cervantes*.]

[304b. *Spanish Drama of the Golden Age*: Mr. Marichal.]

- [305a. *Spanish Literature of the Eighteenth Century*: Mr. Ferrater Mora.]
- [305b. *Spanish Literature of the Middle Ages*.]
- 306. *Spanish Prose of the Golden Age*: Mr. Guillén.
- [307. *Spanish Thought and Essay of the Nineteenth and Twentieth Centuries*: Mr. Ferrater Mora.]

How to Get to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.

By automobile: From the east or west take U.S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43), turning right at Pa. #23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues and take the next left (Yarrow Street), proceeding one block to the College, entering at Goodhart Hall gate on the right.

By air: Passengers arrive at the Philadelphia International Airport and can use the airport limousine to 30th Street Station in Philadelphia or take a taxi directly to Bryn Mawr, a distance of 14 miles.

To Make a Bequest to Bryn Mawr

FORM FOR UNRESTRICTED GIFT

I give and bequeath to the Trustees of Bryn Mawr College, a Pennsylvania corporation located at Bryn Mawr, Pennsylvania, the sum of dollars as an unrestricted gift.

FORM FOR GIFT AS ADDITION TO GENERAL ENDOWMENT

I give and bequeath to the Trustees of Bryn Mawr College, a Pennsylvania corporation located at Bryn Mawr, Pennsylvania, the sum of dollars, which sum shall be added to the general, unrestricted permanent endowment funds of the College, so that the income derived from the principal of this bequest may be used for general College purposes.

FORM FOR GIFT AS ADDITION TO EXISTING TRUST OR FUND

I give and bequeath to the Trustees of Bryn Mawr College, a Pennsylvania corporation located at Bryn Mawr, Pennsylvania, the sum of dollars, which sum shall be added to the principal of the XYZ Memorial Fund heretofore created by and now administered by the College. The additional income of the Fund derived from this bequest shall be applied in accordance with the terms under which the XYZ Memorial Fund was established.

For those considering establishing a separate trust fund for the accomplishment of a specific purpose, information may be obtained from the President of the College or from the Committee on Bequests, Bryn Mawr College, Bryn Mawr, Pennsylvania.

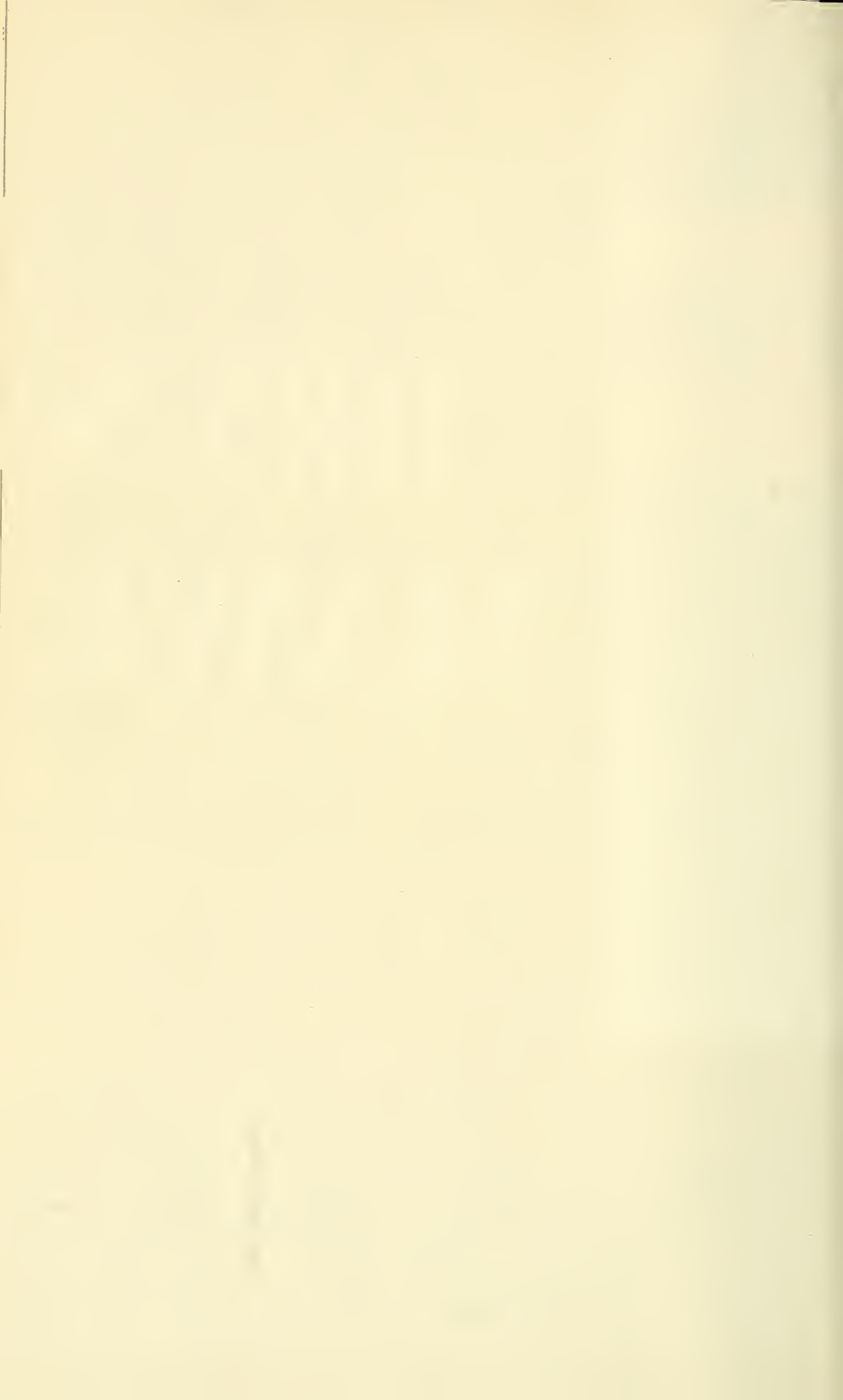
BRYN MAWR

GRADUATE COURSES 1957-1958

BRYN MAWR

COLLEGE CALENDAR

UNDERGRADUATE COURSES 1957-1958



Bryn Mawr College Calendar

UNDERGRADUATE COURSES

ISSUE FOR THE SESSION OF

1957-1958

AUGUST 1957

Volume L

Number 3

Visitors to the College are welcome, and when the College is in session student guides are available to show visitors the campus. The College offices are open Monday through Friday from nine to one and two to five and on Saturdays from nine to one. From mid-June until after Labor Day the offices are closed on Saturdays.

Whenever possible, visitors are urged to write in advance for appointments. Prospective students are encouraged to secure information about the College from local College Representatives. Names and addresses are listed at page 125.

CORRESPONDENCE

The Post Office address is Bryn Mawr College, Bryn Mawr, Pennsylvania.

Correspondence regarding the following subjects should be addressed to:

The President

General interests of the College

The Dean

Academic work, personal welfare and health of the students

The Director of Admissions

Admission to the Undergraduate School and entrance scholarships

The Dean of the Graduate School

Admission to the Graduate School and graduate scholarships

The Director of Halls

Rooms in the halls of residence

The Comptroller

Payment of bills

The Director of the Bureau of Recommendations

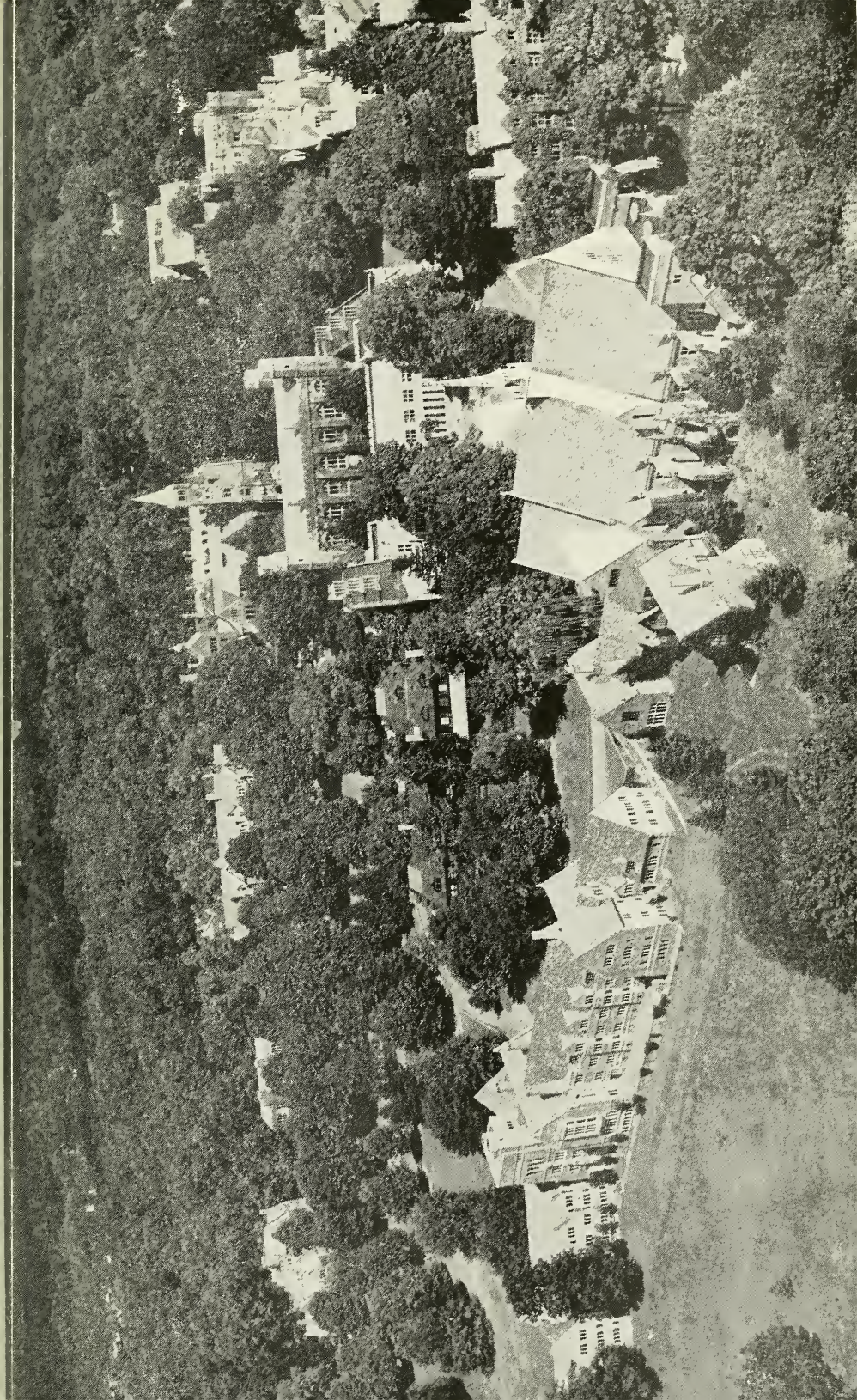
Recommendations for positions and inquiries regarding students' self-help

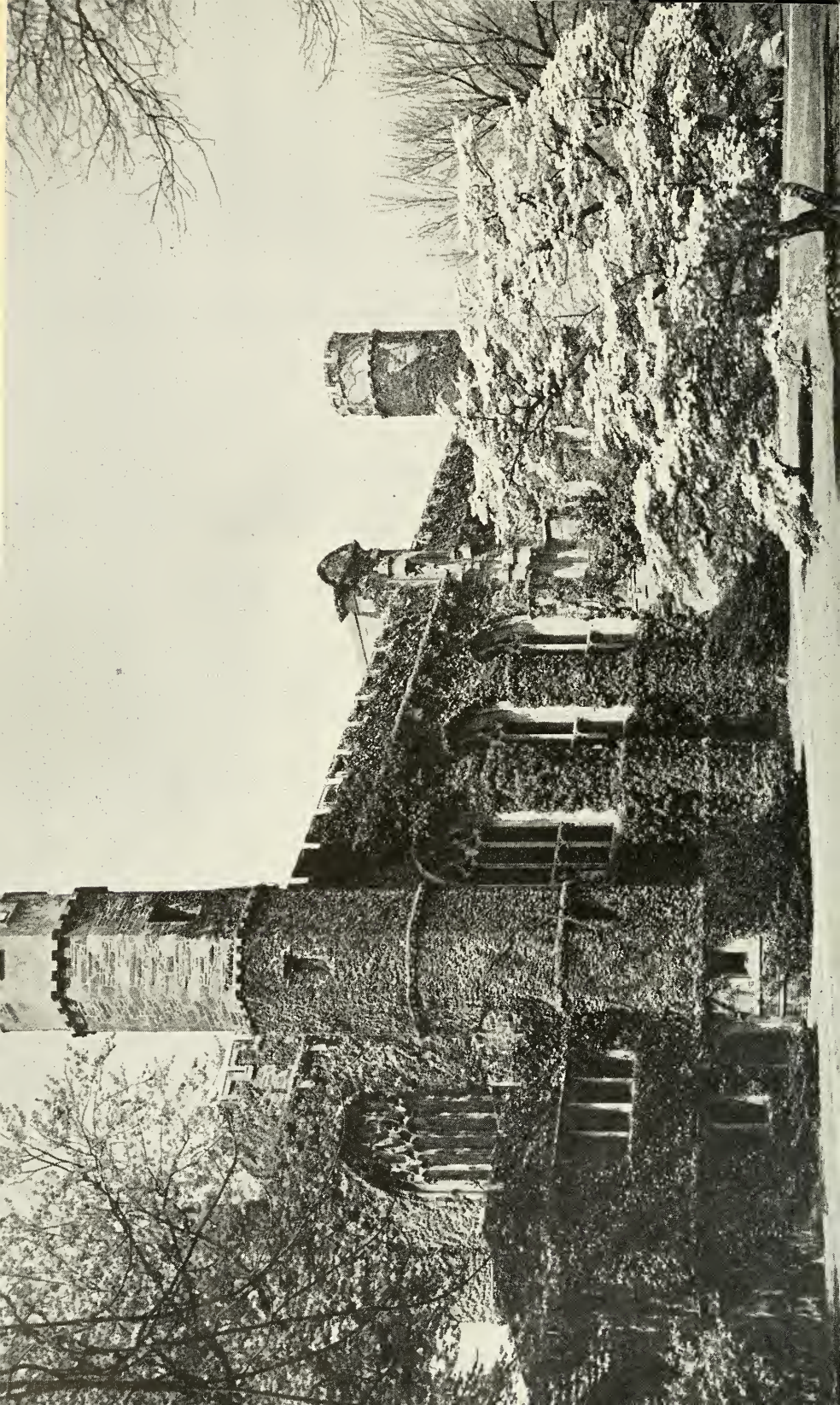
The Alumnae Secretary

Regional Scholarships and loan fund

BRYN MAWR COLLEGE CALENDAR. Published December, July, August and November by Bryn Mawr College, Bryn Mawr, Pa.

Entered as second-class matter, May 28, 1940, at the post office, Bryn Mawr, Pennsylvania, under the Act of August 24, 1912





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College Calendar

1957-1958

1957

FIRST SEMESTER

- September 27.* Halls of residence open to entering class, 8 A.M.
Registration of entering undergraduate students
Deferred, condition, and auditors' examinations begin
- September 28.* Graduate Center open to new graduate students,
9 A.M.
Registration period for graduate students begins
- September 29.* Halls of residence open to all returning graduate
and undergraduate students at 8 P.M.
- September 30.* Registration of returning undergraduates with
Comptroller's Office
Deferred, condition and auditors' examinations end
- October 1.* Work of the 73rd academic year begins at 8:45 A.M.
- October 2.* Hygiene exemption examination for Freshmen,
8 P.M.
- October 5.* Registration period for graduate students ends
- October 19.* French examinations for undergraduates, M.A. and
Ph.D. candidates
- October 26.* Spanish and Italian examinations for under-
graduates, M.A. and Ph.D. candidates
Statistics examinations for M.A. candidates
- November 2.* German examinations for undergraduates, M.A.
and Ph.D. candidates
- November 9.* Russian examinations for undergraduates, M.A.
and Ph.D. candidates
Greek and Latin examinations for undergraduates
- November 18.* Hygiene examination, 8 P.M.
- November 27.* Thanksgiving holiday begins after last class.
- December 2.* Thanksgiving holiday ends at 9 A.M.
- December 20.* Christmas vacation begins at 12:45 P.M.

1958

- January 6.* Christmas vacation ends at 9 A.M.

January 11. French examinations for Seniors conditioned, M.A. and Ph.D. candidates

January 17. Last day of lectures

January 18. Spanish and Italian examinations for Seniors conditioned, M.A. and Ph.D. candidates

Statistics examinations for M.A. candidates

January 20. Collegiate examinations begin

January 25. German and Russian examinations for Seniors conditioned, M.A. and Ph.D. candidates

Greek and Latin examinations for Seniors conditioned

January 29. Registration period for graduate students begins

January 31. Collegiate examinations end

SECOND SEMESTER

February 3. Work of the second semester begins at 9 A.M.

February 8. Registration period for graduate students ends

March 28. Spring vacation begins after last class

April 8. Spring vacation ends at 9 A.M.

Deferred examinations begin

April 10. Ph.D. dissertations in all fields except experimental science and mathematics must be submitted to the Graduate School office

April 12. Deferred examinations end

French examinations for undergraduates, Ph.D. candidates and M.A. candidates for 1959

April 19. Spanish and Italian examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1959

April 26. German examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1959

May 1. Ph.D. dissertations in experimental science and mathematics must be submitted to Graduate School office

May 3. Statistics examinations for M.A. candidates for 1959

May 10. Russian examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1959

Greek and Latin examinations for undergraduates

May 16. Last day of lectures

May 19. Collegiate examinations begin

May 30. Collegiate examinations end

June 3. Conferring of degrees and close of the 73rd academic year

The Trustees of Bryn Mawr College

THOMAS RAEURN WHITE, *President*

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ELIZABETH GRAY VINING¹

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Alumnae Director, 1952-1957

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IDA LAUER DARROW¹⁰

ELIZABETH GRAY VINING¹

Alumnae Director, 1953-1958

HENRY JOEL CADBURY

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JOHN E. FORSYTHE

Alumnae Director, 1954-1959

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MARY SIMPSON GOGGIN

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LELIA WOODRUFF STOKES¹²

KATHARINE ELIZABETH MCBRIDE

Alumnae Director, 1956-1961

ELEANOR LITTLE ALDRICH⁵

BARBARA COLBRON

J. TYSON STOKES

Alumnae Director, Dec., 1957-1962.

MARION EDWARDS PARK, *by invitation*

President Emeritus of Bryn Mawr College

NANCY HOUGH SMITH, *by invitation*¹³

President of the Alumnae Association

Standing Committees of the Board of Directors for 1957

Executive Committee

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MR. CADBURY, *ex officio*
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MRS. ALDRICH
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MISS MCBRIDE, *Chairman*
MR. CADBURY
MRS. INGERSOLL
MRS. MCINTOSH
MISS SMITH
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-
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 5. Mrs. Talbot Aldrich
 6. Mrs. John D. Gordan, Jr.
 7. Mrs. Russell K. Jones

8. Mrs. Douglas Delanoy
9. Mrs. C. Jared Ingersoll
10. Mrs. G. Potter Darrow, Jr.
11. Mrs. Clarence M. Hardenbergh
12. Mrs. Francis J. Stokes
13. Mrs. E. Baldwin Smith

Administration, Faculty, and Teaching Staff

ACADEMIC YEAR, 1957-1958

KATHARINE ELIZABETH MCBRIDE, PH.D. (Bryn Mawr College),
LL.D., L.H.D., Sc.D., *President of the College*

MARION EDWARDS PARK, PH.D. (Bryn Mawr College), LL.D.,
President Emeritus of the College

DOROTHY NEPPER MARSHALL, PH.D. (Bryn Mawr College), *Dean
of the College*

ELEANOR A. BLISS, Sc.D. (Johns Hopkins University), Sc.D., *Dean
of the Graduate School*

ANNIE LEIGH BROUGHTON, M.A. (Bryn Mawr College), *Dean of
Freshmen and Director of Admissions*

MARGARET TYLER PAUL, A.B. (Bryn Mawr College), *Assistant to
the President*

JANET MARGARET AGNEW, B.L.S., M.A. (University of Manitoba),
Librarian

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of
Physical Education*

ELIZABETH HUMESTON, M.D. (Cornell University), *College Phy-
sician*

HORACE ALWYNE, F.R.M.C.M. (Royal Manchester College of
Music), *Professor Emeritus of Music*

RHYS CARPENTER, PH.D. (Columbia University), Litt.D., *Pro-
fessor Emeritus of Classical Archaeology*

REGINA KATHARINE CRANDALL, PH.D. (University of Chicago),
Professor Emeritus of English Composition

GRACE MEAD ANDRUS DE LAGUNA, PH.D. (Cornell University),
Professor Emeritus of Philosophy

MAX DIEZ, PH.D. (University of Texas), *Professor Emeritus of German Literature*

CHARLES GHEQUIERE FENWICK, PH.D. (Johns Hopkins University), LL.D., *Professor Emeritus of Political Science*

GRACE FRANK, A.B. (University of Chicago), *Professor Emeritus of Old French*

HELEN TAFT MANNING, PH.D. (Yale University), LL.D., *Professor Emeritus of History*

CORNELIA LYNDE MEIGS, A.B. (Bryn Mawr College), *Professor Emeritus of English Composition*

MARY HAMILTON SWINDLER, PH.D. (Bryn Mawr College), LL.D., *Professor Emeritus of Classical Archaeology*

ANNA PELL WHEELER, PH.D. (University of Chicago), Sc.D., *Professor Emeritus of Mathematics*

THOMAS ROBERT SHANNON BROUGHTON, PH.D. (Johns Hopkins University), *Professor of Latin, Secretary of the Faculty*

ERNST BERLINER, PH.D. (Harvard University), *Professor of Chemistry*

RICHARD BERNHEIMER, PH.D. (University of Munich), *Professor of History of Art, on joint appointment with Haverford College*

L. JOE BERRY, PH.D. (University of Texas), *Professor of Biology*

ELEANOR A. BLISS, Sc.D. (Johns Hopkins University), Sc.D., *Dean of the Graduate School and Professor of Biology*

SAMUEL CLAGGETT CHEW, PH.D. (Johns Hopkins University), Litt.D., *Professor Emeritus of English Literature and Visiting Professor*

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), *Professor of Education and Psychology*

FREDERICA DE LAGUNA, PH.D. (Columbia University), *Professor of Anthropology*

LINCOLN DRYDEN, PH.D. (Johns Hopkins University), *Professor of Geology*

- JOSÉ MARÍA FERRATER MORA, *Licenciado en Filosofía* (University of Barcelona), *Professor of Spanish and Philosophy*¹
- MARY SUMMERFIELD GARDINER, PH.D. (Bryn Mawr College), *Professor of Biology*
- FELIX GILBERT, PH.D. (University of Berlin), *Professor of History*
- MARGARET GILMAN, PH.D. (Bryn Mawr College), *Eunice M. Schenck 1907 Professor of French*
- STEPHEN JOSEPH HERBEN, B.LITT., PH.D. (Princeton University), *Professor of English Philology*
- MYRA RICHARDS JESSEN, PH.D. (Bryn Mawr College), *Professor of German*
- RICHMOND LATTIMORE, PH.D. (University of Illinois), *Paul Shorey Professor of Greek*
- MARGUERITE LEHR, PH.D. (Bryn Mawr College), *Professor of Mathematics*
- ANGELINE HELEN LOGRASSO, PH.D. (Radcliffe College), *Professor of Italian*
- GEDDES MACGREGOR, B.D., LL.B. (University of Edinburgh), D.PHIL. (Oxford), *D.ès L.* (University of Paris), F.R.S.L., *Rufus M. Jones Professor of Philosophy and Religion*
- BERTHE MARIE MARTI, PH.D. (Bryn Mawr College), *Professor of Latin*
- FRITZ MEZGER, PH.D. (University of Berlin), *Professor of Germanic Philology*
- AGNES KIRSOPP LAKE MICHELS, PH.D. (Bryn Mawr College), *Professor of Latin*
- WALTER C. MICHELS, PH.D. (California Institute of Technology), *Marion Reilly Professor of Physics*

1. On partial leave of absence for semester II, 1957-1958.

MILTON CHARLES NAHM, B.LITT., PH.D. (University of Pennsylvania), *Professor of Philosophy*

MILDRED BENEDICT NORTHROP, PH.D. (Columbia University), *Professor of Economics*

JANE MARION OPPENHEIMER, PH.D. (Yale University), *Professor of Biology*

JOHN CORNING OXTOBY, M.A. (University of California), *Professor of Mathematics*

WILLIAM J. ROACH, PH.D. (University of Chicago), *Visiting Professor of Old French*

CAROLINE ROBBINS, PH.D. (University of London), *Professor of History*¹

PAUL SCHRECKER, PH.D. (University of Berlin), LL.D., *Visiting Professor of Philosophy*

JOSEPH CURTIS SLOANE, M.F.A., PH.D. (Princeton University), *Professor of History of Art*

ALEXANDER COBURN SOPER, III, M.F.A., PH.D. (Princeton University), *Professor of History of Art*²

ARTHUR COLBY SPRAGUE, PH.D. (Harvard University), *Mary E. Garrett Alumnae Professor of English Literature*

K. LAURENCE STAPLETON, A.B. (Smith College), *Professor of English and of Political Theory*

ISABEL SCRIBNER STEARNS, PH.D. (Bryn Mawr College), *Professor of Philosophy*

LILY ROSS TAYLOR, PH.D. (Bryn Mawr College), LITT.D., *Professor Emeritus of Latin and Visiting Professor*

EDWARD H. WATSON, PH.D. (Johns Hopkins University), *Professor of Geology*

ROGER HEWES WELLS, PH.D. (Harvard University), *Professor of Political Science*

1. On leave of absence for semester II, 1957-1958.

2. On partial leave of absence for semester II, 1957-1958.

MARY KATHARINE WOODWORTH, PH.D. (Bryn Mawr College),
Professor of English

DOROTHY WYCKOFF, PH.D. (Bryn Mawr College), *Professor of
Geology*

JOSHUA C. HUBBARD, PH.D. (Harvard University), *Associate Pro-
fessor and Professor-elect of Economics*

BETTINA LINN, M.A. (Bryn Mawr College), *Margaret Kingsland
Haskell Associate Professor and Professor-elect of English*

KATHERINE D. K. LOWER, PH.D. (University of Wisconsin), *Asso-
ciate Professor and Professor-elect of Social Work and Social
Research*

PETER BACHRACH, PH.D. (Harvard University), *Associate Profes-
sor of Political Science*¹

FRANCES DE GRAAFF, PH.D. (University of Leyden), *Associate
Professor of Russian, on joint appointment with Haverford
College*

ARTHUR P. DUDDEN, PH.D. (University of Michigan), *Associate
Professor of History*

ROBERT L. GOODALE, A.B., B.MUS. (Yale University), A.A.G.O.,
Associate Professor of Music

ROSALIE C. HOYT, PH.D. (Bryn Mawr College), *Associate Pro-
fessor of Physics*

HERTHA KRAUS, PH.D. (University of Frankfurt), *Carola Woeri-
shoffer Associate Professor of Social Work and Social Research*

HAROLD WILLIAM KUHN, PH.D. (Princeton University), *Associate
Professor of Mathematics*

MABEL LOUISE LANG, PH.D. (Bryn Mawr College), *Associate Pro-
fessor of Greek*

HUGUES LEBLANC, PH.D. (Harvard University), *Associate Pro-
fessor of Philosophy*

GERTRUDE C. K. LEIGHTON, A.B. (Bryn Mawr College), LL.B.
(Yale University), *Associate Professor of Political Science*¹

1. On sabbatical leave for the year 1957-1958.

JUAN MARICHAL, PH.D. (Princeton University), *Associate Professor of Spanish*

MACHTELD JOHANNA MELLINK, PH.D. (University of Utrecht), *Associate Professor of Classical Archaeology*

JOHN R. PRUETT, PH.D. (Indiana University), *Associate Professor of Physics*

EUGENE V. SCHNEIDER, PH.D. (Harvard University), *Associate Professor of Sociology*

JOACHIM H. SEYPPPEL, PH.D. (University of Rostock), *Associate Professor of German*

MARY MARGARET ZENDER, M.A. (Lawrence College), M.S.S. (Smith College), *Associate Professor of Social Work*

GEORGE L. ZIMMERMAN, PH.D. (University of Chicago), *Associate Professor of Chemistry*¹

MORTON SACHS BARATZ, PH.D. (Yale University), *Associate Professor-elect of Economics*

WARNER B. BERTHOFF, PH.D. (Harvard University), *Assistant Professor and Associate Professor-elect of English*¹

MORTON EDWARD BITTERMAN, PH.D. (Cornell University), *Associate Professor-elect of Psychology*

DONALD R. BROWN, PH.D. (University of California), *Assistant Professor and Associate Professor-elect of Psychology*¹

ROBERT S. DAVIDON, PH.D. (University of Pennsylvania), *Assistant Professor and Associate Professor-elect of Psychology*

FRANCES BONDHUS BERLINER, PH.D. (Bryn Mawr College), *Assistant Professor of Chemistry*²

ROBERT L. CONNER, PH.D. (Indiana University), *Assistant Professor of Biology, on joint appointment with Haverford College*

1. On sabbatical leave for the year 1957-1958.

2. On leave of absence for the year 1957-1958.

- MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*
- DAVID B. GREEN, PH.D. (Harvard University), *Assistant Professor of English*
- DAVID JOSEPH HERLIHY, PH.D. (Yale University), *Assistant Professor of History*
- EDITH HAMILTON LANMAN, M.A. (University of California), *Assistant Professor of Chemistry*
- ISABEL GAMBLE MACCAFFREY, PH.D. (Radcliffe College), *Assistant Professor of English*
- MARIO MAURIN, PH.D. (Yale University), *Assistant Professor of French*
- ROBERT A. RUPEN, PH.D. (University of Washington), *Assistant Professor of Political Science*
- RAYMOND F. BETTS, D.d'Univ. (University of Grenoble), *Instructor and Assistant Professor-elect of History on the Eloise Ruthven Tremain Memorial Fund*
- ROBERT HAWES BUTMAN, M.A. (University of North Carolina), *Instructor and Assistant Professor-elect of English on the Theresa Helburn Fund, and on joint appointment with Harvard College*
- ALEXANDER CAMBITOGLOU, PH.D. (University of London), *Assistant Professor-elect of Classical Archaeology*
- MICHEL GUGGENHEIM, PH.D. (Yale University), *Assistant Professor-elect of French*
- SYLVIA KENNEY, PH.D. (Yale University), *Assistant Professor-elect of Music*
- GEORGE K. LEVINGER, PH.D. (University of Michigan), *Assistant Professor-elect of Social Work and Social Research*
- FRANK BRYANT MALLORY, A.B. (Yale University), *Assistant Professor-elect of Chemistry*
- MANUEL ASENSIO, PH.D. (University of Pennsylvania), *Visiting Lecturer in Spanish*
- HELEN J. DOW, PH.D. (Bryn Mawr College), *Lecturer in History of Art*
- MURIEL JANET GAYFORD, M.S.P.A. (Washington University), *Lecturer in Medical Social Work*

- CLAUDIO GUILLÉN, PH.D. (Harvard University), *Visiting Lecturer in Spanish*
- EDWARD B. HARPER, A.B. (Reed College), *Part-time Lecturer in Sociology and Anthropology*
- HOWARD CLARKE HORSFORD, PH.D. (Princeton University), *Visiting Lecturer in English*
- DEMETRIUS IATRIDIS, PH.D. (Bryn Mawr College), *Lecturer in Social Group Work*
- AGI JAMBOR, *Lecturer in Music and Director of Ensemble Groups*
- MICHAEL HAMILTON JAMESON, PH.D. (University of Chicago), *Visiting Lecturer in Greek*
- OLGA LANG, Graduate (University of Moscow), *Lecturer in Russian, on joint appointment with Haverford and Swarthmore Colleges*
- ETHEL W. MAW, M.S. (University of Pennsylvania), *Lecturer in Education*
- SUSAN E. MAXFIELD, M.S. (Syracuse University), *Part-time Lecturer in Education and Director of the Phebe Anna Thorne School*
- EUGENE NIXON, PH.D. (Brown University), *Visiting Lecturer in Chemistry, Semester I*
- RUTH OLIVER STALLFORT, M.S. (Simmons College School of Social Work), *Lecturer in Psychiatric Social Work*
- FREDERICK B. TOLLES, PH.D. (Harvard University), *Visiting Lecturer in History, Semester II*
- JOSEPH VARIMBI, PH.D. (University of Pennsylvania), *Lecturer in Chemistry*
- JEANNE L. WERTZ, PH.D. (University of Pennsylvania), *Lecturer in Social Research*
- MAXINE WOOLSTON, PH.D. (Radcliffe College), *Lecturer in Economics*
- BARBARA CROSS, PH.D. (Radcliffe College), *Instructor in English*
- HOPE K. GOODALE, M.A. (Bryn Mawr College), *Part-time Instructor in Spanish*
- PHILIP KOCH, PH.D. (Harvard University), *Instructor in French*
- RAMONA T. LIVINGSTON, A.B. (William Jewell College), *Instructor in English*

- SOLEDAD MARICHAL, M.A. (University of Puerto Rico), *Part-time Instructor in Spanish*
- MARIE MORISAWA, M.A. (Wyoming University), *Instructor in Geology*
- MARGARET C. PEARCE, B.S. (University of Minnesota), *Part-time Instructor in English*
- HERTA STEPHENSON (University of Lausanne), *Part-time Instructor in German*
- LISE WERTHEIMER, A.B. (Swarthmore College), *Instructor in Psychology*
- MARILYN DENTON, M.A. (University of Wisconsin), *Instructor-elect in English*
- LOUISE HARNED, PH.D. (Yale University), *Instructor-elect in Political Science*
- ROBERT A. WALLACE, B.A. (Harvard University), *Instructor-elect in English*
- FRITZ JANSCHKA, *Akademischer Maler* (Akademie der Bildenden Künste), *Artist in Residence*
- HENRIETTA HUFF LANDES, A.B. (Bryn Mawr College), *Curator of Slides and Photographs*
- WILLIAM H. REESE, PH.D. IN MUSIC (University of Berlin), *Director of Orchestra*
- ELIZABETH BOOTH, M.A. (Bryn Mawr College), *Part-time Assistant in Music*
- JEANNE DEBOW BRUGGER, M.A. (Smith College), *Part-time Assistant in Psychology*
- ANNA CHAO, A.B. (Sweet Briar College), *Part-time Demonstrator in Biology*
- ISABEL ECHIKSON, M.A. (Bryn Mawr College), *Part-time Assistant in Chemistry*
- JANICE GORDON, A.B. (Bryn Mawr College), *Part-time Assistant in Chemistry*
- MIRIAM GORN, A.B. (Wellesley College), *Part-time Reader in Mathematics*
- LAWRENCE HOLLAND, M.A. (Bryn Mawr College), *Part-time Assistant in Physics*

MARGARET G. HOWLAND, A.B. (Barnard College), *Part-time Assistant in History of Art*

ARANKA EVE KOVACS, M.A. (University of Toronto), *Part-time Assistant in Economics*

ADELAIDE W. MAUCK, A.B. (Bryn Mawr College), *Part-time Assistant in Chemistry*

JANE ROYLE McCONNELL, PH.D. (Bryn Mawr College), *Part-time Demonstrator in Biology*

ANN SEWALL MERRIAM, A.B. (Goucher College), *Part-time Assistant in Physics*

DOROTHEA JENKINS RHEA, M.A. (Bryn Mawr College), *Part-time Assistant in Statistics*

BRUNILDE SISMONDO, M.A. (Bryn Mawr College), *Part-time Assistant in Classical Archaeology*

WANDA SPRINGER, A.B. (Oberlin College), *Part-time Demonstrator in Biology*

PHOEBE D. STARFIELD, A.B. (Swarthmore College), *Part-time Demonstrator in Biology*

Officers of Administration

MARIAN CARTER ANDERSON, B.S. (Simmons College), *Recorder of the College*

CAROL BIBA, A.B. (University of Wisconsin), *Director of Public Information*

RAYMOND G. BUCKLEY, *Comptroller*

LOUISE HODGES CRENSHAW, A.B. (Bryn Mawr College), *Director of the Bureau of Recommendations*

CHARLOTTE BRANDON HOWE, M.A. (Radcliffe College), *Director of Halls and Head Warden*

KATHERINE A. GEFFCKEN, M.A. (Bryn Mawr College), *Assistant Dean of the College*

JANE J. MARTIN, A.B. (Bryn Mawr College), *Assistant to the Dean of Freshmen and Director of Admissions*

CLARISSA WARDWELL PELL, *Executive Director of the Resources Committee*

HORACE T. SMEDLEY, *Superintendent of Buildings and Grounds*

Library

JANET MARGARET AGNEW, B.L.S., M.A. (University of Manitoba), *Head Librarian*

JANE WALKER, B.S. (Simmons College), *Head of Cataloguing Department*

ETHEL W. WHETSTONE, A.B., A.B.L.S. (University of North Carolina), *Head of Circulation Department*

SARAH C. BENHAM, A.B., M.S.L.S. (Western Reserve University), *Assistant in Cataloguing Department*

DOROTHY V. McGEORGE, A.B., B.S.L.S. (Drexel Institute), *Part-time Assistant in Acquisitions Department*

ELIZABETH H. NOBLE, B.S., M.S.L.S. (Drexel Institute), *Assistant in Cataloguing Department*

PAMELA G. REILLY, A.B., M.S.L.S. (Drexel Institute), *Assistant in Circulation Department*

Physical Education

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

ETHEL GRANT, *Instructor in Physical Education*

GLORIA SCHMIDT, M.A. (New York University), *Instructor in Physical Education*

JANET A. YEAGER, *Instructor in Physical Education*

Foreign Students

MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*

Halls of Residence

- FRANCES SHIRLEY, M.A. (Bryn Mawr College), *Warden of Merion*
- NANCY R. TATUM, M.A. (Bryn Mawr College), *Warden of East House*
- JEANNY ESTHER VORYS, M.A. (University of Chicago), *Warden of Radnor*
- NANCY ELLEN BLACKWOOD, A.B. (Bryn Mawr College), *Warden-elect of Pembroke East*
- MARGARET G. HOWLAND, A.B. (Barnard College), *Warden-elect of Pembroke West*
- MONIQUE LE CARS, *Warden-elect of Wyndham*
- PATRICIA ONDERDONK, A.B. (Bryn Mawr College), *Warden-elect of Denbigh*
- BRUNILDE SISMONDO, M.A. (Bryn Mawr College), *Senior Resident-elect of the Graduate Center*
- MARGARET BECKER SMITH, A.B. (Barnard College), *Warden-elect of Rhoads Hall*

Health

- ELIZABETH HUMESTON, M.D. (Cornell University), *College Physician*
- FREDERIC C. SHARPLESS, M.D. (University of Pennsylvania School of Medicine), *General Consultant*
- ISAAC SHARPLESS, M.D. (University of Pennsylvania School of Medicine), *Assistant College Physician*
- HOWARD B. SMITH, M.D. (Jefferson Medical College), *Consulting Psychiatrist*
- RICHARD G. LONSDORF, M.D. (University of Pennsylvania School of Medicine), *Consulting Psychiatrist*
- IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

Phebe Anna Thorne School

SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director*

EVE BRILL, B.S. (Teachers College, Columbia University),
Teacher

ENA B. JEFFERYS, A.B. (Radcliffe College), *Assistant Teacher*

GEORGIANNA ENGSTROM, A.B. (University of Minnesota), *Assistant Teacher*

Child Study Institute

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania),
Director

LOIS R. TABER, A.B. (Mt. Holyoke College), *Social Caseworker*

ELIZABETH WHEELER, M.S.S. (Bryn Mawr College), *Social Caseworker*

CORNELIA T. BIDDLE, A.B. (Bucknell University), *Part-time Social Caseworker*

ELSIE WAELDER, M.S.W. (Western Reserve University), *Part-time Social Caseworker*

LELIA BRODERSEN, M.A. (Temple University), *Psychologist*

ELEANOR BEATTY, M.A. (George Washington University), *Psychologist*

ANITA GRINNELL, M.S. (University of Pennsylvania), *Part-time Psychologist*

CONSTANCE GRANT, B.S. (University of Pennsylvania), *Remedial Reading Teacher*

MARGARET C. PEARCE, B.S. (University of Minnesota), *Remedial Speech Teacher*

JAMES G. DELANO, M.D. (Washington University Medical School), *Consulting Psychiatrist*

MARGARET DEALY, M.D. (Cornell University Medical College),
Consulting Psychiatrist

MELVIN S. HELLER, M.D. (Tufts Medical School), *Consulting Psychiatrist*

MARY LOUISE LLOYD, M.A. (Yale University), *Psychological Assistant*

Introduction

BRYN MAWR COLLEGE was founded by a group of men and women belonging to the Society of Friends who were convinced that intelligent women deserve an education as rigorous and stimulating as that offered to men.

This concern about opportunity for women to study at the university level was first felt by Dr. Joseph Taylor, a New Jersey physician, who decided to give his estate to provide the land, the first buildings and the endowment for the new college. With much care Dr. Taylor chose the site, thirty-nine acres of land on a hill in Bryn Mawr, eleven miles west of Philadelphia. He supervised the erection of the first building and took part in formulating the plans that led to a new educational venture. This was the opening in 1885 of the first college for women with undergraduate instruction for the A.B. and graduate instruction for the M.A. and Ph.D. degrees in all departments.

The first president of Bryn Mawr College was James E. Rhoads, a retired physician and one of the Trustees responsible for the initial plans. The first dean was M. Carey Thomas, who devoted her life to securing for women the opportunity for higher education and the right to share in all the privileges and responsibilities of American citizenship. Miss Thomas succeeded to the presidency in 1893, after the resignation of Dr. Rhoads. In 1922, she was followed by Marion Edwards Park, already distinguished in the academic world for her scholarship in the classics and her ability as a teacher and administrator. The fourth president is Katharine Elizabeth McBride, who was elected to the presidency in 1942.

Since the early years of Bryn Mawr, the campus has grown from 39 to more than 70 acres, new buildings have been added as required by additional students and by more complex undertakings in teaching and research, yet the College remains a compact unit for living and working.

Bryn Mawr has preserved the purpose and much of the tradition of its founders. It believes that intellectual enrichment and discipline provide a sound foundation for living. It believes in

the rights of the individual and in freedom to think and act as intelligent and responsible members of a democratic society.

By the terms of its charter Bryn Mawr College provides instruction in the liberal arts and sciences on both the undergraduate and graduate level. Members of the faculty usually combine graduate and undergraduate teaching. Teaching and research are found to complement each other, and the stimulation of investigation in the various fields of graduate study is reflected in all departments of undergraduate work. The undergraduate program emphasizes both depth and breadth of knowledge and understanding. No field is so broad that it cannot take advantage of the specialist's deep understanding; no specialty is so obscure that it may not profit from a breadth of perception.

Believing that a small college provides the most favorable opportunity for the students to participate actively in their own education, Bryn Mawr College limits the number of undergraduates to approximately six hundred students. And since diversity in background and training serves not only to stimulate discussion but also to develop an intelligent understanding of such diversity, the undergraduate enrolment includes students from various types of schools, private and public, foreign as well as American. The whole group, both graduate and undergraduate, is composed of students from all parts of the United States as well as students from many foreign countries.

The resources of Bryn Mawr as a small residential college are augmented by its participation with Haverford College and Swarthmore College in a plan which coordinates the facilities of the three institutions while preserving the individual qualities and autonomy of each.

Bryn Mawr College sponsors a broad cultural program which supplements the curriculum and enriches its community life. Various lectureships bring scholars and other leaders in world affairs to the campus for series of public lectures and for classes and conferences with the students. Such opportunities are provided by the six-week residence of the Mary Flexner Lecturer in the Humanities and of the Anna Howard Shaw Lecturer in the Social Sciences, and by various individual lecturers in many of the departments of the College. Each year a series of lectures on current national and international problems is arranged by the

Undergraduate Alliance for Political Affairs. The musical, dramatic and dance productions of the College are directed and arranged by the appropriate student organizations, often in cooperation with their counterparts in Haverford College, and with professional assistance from members of the faculty and staff. The Mrs. Otis Skinner Theater Workshop provides facilities for experimental theater work and a studio for painting and sculpture, where guidance and criticism are provided by the artist-in-residence.

Student organizations have complete responsibility for the many aspects of student activity. The large associations, to which every student belongs, provide a framework in which individuals and smaller groups function. The Self-Government Association legislates in matters of social and personal conduct, and its elected Executive Board has full responsibility for the executive and judicial functions of the organization. Through their Self-Government Association, the students share with the faculty the responsibility for the administration of the Academic Honor System. The Undergraduate Association coordinates the activities of the many specialized clubs and societies which are open to all and which provide opportunities for critical and creative efforts. The Interfaith Association with the guidance of the Committee on Religious Life of the Board of Directors plans the Chapel Services and takes the responsibility for giving students an opportunity to pursue and extend their religious interests. The Athletic Association plans the extra-curricular athletic program, and the Bryn Mawr League concerns itself with problems of social welfare and various branches of social service to the community at large.

Opportunity for the cultivation of clear thinking and informed reasoning, for exercise in the privileges and responsibilities of community life, and for practice in the critical and creative arts should thus be part of the experience of the undergraduate student at Bryn Mawr. As she continues through the four undergraduate years she should begin to know too the personal satisfactions and rewards that are the common heritage of scholars.

Admission

BRYN MAWR COLLEGE is interested in candidates of character and ability, who wish a liberal college education and are prepared for college work by a sound education in school. The College has found highly successful candidates among students of varied interests and talents who come from a wide range of schools and regions in the United States and abroad.

In its consideration of candidates the College looks for evidence of ability in the student's high school record, her rank in class and her College Board tests, and asks her high school principal for an estimate of her character, maturity and readiness for college.

The Director of Admissions welcomes correspondence and interviews with candidates, their parents and school advisers. College and Alumnae Association representatives in various sections of the country are glad to see candidates. Names and addresses are listed in the section, Alumnae Representatives, beginning on page 125.

PROGRAM OF SECONDARY SCHOOL STUDIES

Candidates are expected to complete a four-year secondary school course. The program of studies providing the best background for college work includes English, languages and mathematics carried through most of the school years and, in addition, history and a laboratory science. A school program giving excellent preparation for study at Bryn Mawr would be, for example, as follows: English grammar, composition and literature throughout four years; Mathematics, emphasizing basic algebraic, geometric and trigonometric concepts and deductive reasoning; a good foundation in one modern language and in Latin or Greek; some work in history and at least one course in science, preferably Biology, Chemistry or Physics. Elective subjects might be offered in, for example, History of Art, History of Music or Biblical studies to make up the total of 16 credits generally recommended for admission to the College.

Since school curricula vary widely, the College is fully aware that many applicants for admission will offer programs which differ from the one described above. The College is glad to consider applications from students whose school programs have been different, provided that these have included continuity in the study of basic subjects.

APPLICATION FOR ADMISSION

Students are advised to apply for admission to Bryn Mawr before the end of the junior year in high school. Early registration allows time for consultation about school programs and makes sure that the student will receive up-to-date information about the College. Admitted candidates are assigned rooms in order of date of registration.

Only in exceptional circumstances will applications to the freshman class be accepted after January 31 of the student's senior year.

Application forms may be obtained from the Director of Admissions, Bryn Mawr College, Bryn Mawr, Pennsylvania. A fee of fifteen dollars must accompany each application and is not refunded under any circumstances. Application does not insure admission.

ENTRANCE TESTS

The Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board are required of all candidates with the exception of students who have been admitted to the universities of other countries. The Aptitude Test should be taken in January of the senior year in secondary school, and the Achievement Tests in March of that year. Bryn Mawr prefers that candidates offer Achievement Tests in English, in a foreign language, and in one of the following: Social Studies, one of the sciences, or in Intermediate or Advanced Mathematics. No special preparation, other than work well done in a good school, is required for successful performance on these tests.

Candidates are responsible for registering with the College Entrance Examination Board for the tests. Information about the tests, test centers, fees and dates may be obtained by writing to *College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey, or P.O. Box 27896, Los Angeles 27, California.*

PRELIMINARY NOTICE TO SCHOOLS

Juniors in secondary school are strongly advised to take in March or in May, as preliminary trial tests, the Scholastic Aptitude Test of the College Entrance Examination Board, and to have the Board send reports of the test to the College. Then, after a student has filed application for admission to Bryn Mawr, the College will likewise obtain from her school reports on her three years of high school work. The Committee on Admissions will afterwards notify the school of the candidate's chances for admission to Bryn Mawr. The school is free to use this information in counselling.

ADVANCED PLACEMENT

Students who have carried advanced work in school may be admitted to one or more advanced courses in the freshman year if they have made honor grades on the Advanced Placement Tests of the College Entrance Examination Board. These tests are given at Board centers in May. Students should also consult the Dean of Freshmen about the advisability of taking placement tests, given by the College during Freshman Week.

ADMISSION OF TRANSFER AND FOREIGN STUDENTS

Students are admitted on transfer from American and foreign colleges and universities approved by the College. To be admitted on transfer, a student must have an excellent school record, and in college work, at least a "B" average. A transfer applicant should submit to the College:

1. A letter explaining why she wants to transfer. Plans for the major subject should be included.
2. A current catalogue of her own college, in which she has marked the courses taken.
3. Transcripts of her high school and college courses.
4. Official test reports from the College Entrance Examination Board on the Scholastic Aptitude Test and three Achievement Tests which the candidate may have taken previously.

Transfer candidates who have not taken the above tests will be required to take only the Scholastic Aptitude Test in the March or May series. Information concerning this test and applications to take it may be obtained from the College Entrance

Examination Board, P.O. Box 592, Princeton, New Jersey, or P.O. Box 27896, Los Angeles 27, California.

Foreign students may substitute for the College Board tests evidence that they have been admitted to universities in their own countries. Those whose native language is not English must in addition present credentials attesting proficiency in English.

No credit will be given for work done elsewhere until the student has successfully completed a year's work at Bryn Mawr. To qualify for the A.B. degree, transfer students must complete two years of study here. Students of other colleges or universities who have failed to meet the prescribed standards of academic work, or who have been put on probation or suspended or excluded, will under no circumstances be admitted to Bryn Mawr College.

NON-MATRICULATED STUDENTS

Women over twenty-five years of age may be admitted as non-matriculated students. They are called "Hearers" and may take undergraduate courses without a matriculation examination after furnishing proof that they have at some time pursued the studies required for matriculation. Hearers are clearly differentiated from regularly matriculated students and must obtain permission from each instructor to attend classes, laboratories and examinations. They are not eligible for degrees and may receive only such certificates of collegiate study as their instructors see fit to give. They are charged the full tuition fee. No other special students are admitted to undergraduate courses.

Academic Facilities and Residence

THE LIBRARY

THE M. CAREY THOMAS LIBRARY, which contains over a quarter of a million volumes, serves the needs of advanced graduate students and faculty as well as the undergraduates. It is both a research and a study library. The periodicals in all subjects, of which about one thousand are currently received, contribute materially to the value of the collection.

The open-shelf system provides free access to the stacks. The Reference Room and Periodical Room provide convenient and ready access to standard works of reference and current periodicals.

The Quita Woodward Memorial Room has been planned for recreational reading. The collection provided for this purpose, now numbering about two thousand volumes, includes recent books in literature, art, religion and current affairs as well as many classics.

In the Rare Book Room, there are early printed books, manuscripts, first editions, fine press books, fine illustrated editions, and association copies. Exhibitions of items selected from the library's own resources and of material lent by Friends of the Library are held here at intervals during the academic year. Here also is the Marjorie Walter Goodhart Mediaeval Library, a collection of incunabula given by Howard L. Goodhart, which numbers over nine hundred volumes. Consisting mainly of philosophical and theological works of the fifteenth century, it occupies a significant place among college library collections.

A large Reading Room modeled after the Great Hall in Wadham College, Oxford University, has individual desks for the undergraduate students. Additional work space is to be found in the Reference Room, Art Study, and the carrels in the West Wing. Thirteen seminar rooms are reserved for the graduate students.

Haverford and Swarthmore Colleges and the libraries in Philadelphia are generous in making their resources available to students. The Philadelphia Bibliographical Centre and Union Library Catalogue situated at the University of Pennsylvania enable the student to locate easily the material in approximately one hundred and sixty libraries in the Philadelphia metropolitan area.

Each of the science departments at Bryn Mawr has its own library with adequate reading space providing ready accessibility to bound and current numbers of scientific journals, standard reference books and modern texts.

ART MUSEUM AND SLIDE COLLECTION

The collection of slides used in the Departments of Classical Archaeology and History of Art includes some 40,000 items, representing all fields of Western and Oriental art from pre-historic times to the present. It is supplemented by a collection of 35,000 photographs and color reproductions.

A small but valuable group of original works of art, available for study, include Greek and Roman vases, ancient coins, sculpture, Oriental pottery and scrolls, prints, and modern American and European paintings. The Ella Riegel Museum of Classical Archaeology contains the Densmore Curtis Collection presented by Clarissa Dryden, part of the Hoppin Collection, the Elizabeth Washburn King Collection of Classical Greek coins, and the Aline Abaecherli Boyce Collection of Roman Republican silver coins, as well as various gifts from friends of the College. For Far Eastern study the Chapin Collection of books, paintings, calligraphy, textiles, and ceramics includes material from Korea as well as from China and Japan. Western art is variously represented by several small collections, including the Howard L. Gray Collection of Modern Prints and the Neuberger Collection of Contemporary American Paintings.

LABORATORIES

The Departments of Chemistry and Geology have their laboratories, libraries and classrooms in the Marion Edwards Park Hall. This is the first of three buildings which have been planned to provide in one unified group ample space and modern facilities for the natural sciences and mathematics. Construction of the

second building in this group, that to house the biological sciences, is now under way. Funds are being raised so that it will be possible to construct the building for Physics and Mathematics in the near future.

Biology, Physics and Mathematics now occupy Dalton Hall, which will be released to provide for other departments when these three departments can be moved to their new buildings close to Park Hall.

Both Dalton and Park have facilities for graduate as well as undergraduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed by faculty and graduate students in particular research projects. On occasions this equipment is made available to advanced undergraduates who are working on honors problems.

In Park Hall there is a laboratory for microphotography as well as the large mineral collection of the Geology Department. In Dalton Hall there are a machine shop and a glass-blowing shop in the charge of an expert machinist and a glass-blower. There is also a student shop at the disposal of graduate students in Physics and seniors working on honors problems. In addition, there is a modest hot laboratory in which radioactive samples may be processed for use in connection with the programs of the various science departments.

Each of the science departments has its own library including a large collection of scientific journals. The Geology Department also has a collection of over 25,000 maps on deposit from the United States Army Map Service.

The laboratories of Experimental Psychology are housed in the Library and East House Annex.

Residence

HALLS OF RESIDENCE

There are on the campus nine halls of residence which provide full living accommodations for fifty to eighty-five students each, and one smaller hall, used as a language house for upperclassmen, housing twenty students. Denbigh Hall, Merion Hall, Pembroke East, Pembroke West, and Radnor Hall are named for counties

in Wales, recalling the tradition of the early Welsh settlers of the area in which Bryn Mawr is situated. Rockefeller Hall is named for its donor, John D. Rockefeller, and Rhoads North and South for the first president of the College, James E. Rhoads. Each hall is in the charge of a resident warden, an instructor or graduate student, who is also a member of the Dean's staff and like the Dean interested in all aspects of the student's welfare and her progress in College.

Although the College offers a variety of living accommodations, most students have single rooms. Some suites and double rooms are available. For all the rooms the College provides the necessary furniture, but students are expected to supply their own rugs and curtains in addition to any other accessories they may desire.

Each of the halls is a complete residence unit, with its own kitchen and dining room, except Pembroke East and West and Rhoads North and South which have common kitchens and dining rooms for the two wings. In every hall, there are both large and small public rooms, where students may entertain their guests and gather together for study or recreation. The maintenance of the hall is under the direction of a Hall Manager who, under the supervision of the College Dietitian, is also responsible for the preparation and serving of the meals.

RULES FOR RESIDENCE

Residence in the college buildings is required of all undergraduates except those living with their families in Philadelphia or the vicinity. The privilege of residence is extended to married students whose husbands are not living in the immediate vicinity of the College.

A student enrolled in the College who plans to be married must inform the Dean of her intentions and must make arrangements for living that meet with the Dean's approval. *Any student who marries during her college career without previously informing the Dean of her plan will not be permitted to remain in College.*

The College maintains its halls of residence in order to provide simple, comfortable living for its students. It expects the students to respect its property and the standards on which the halls are run. A printed statement of the regulations for residence is

given each student for her guidance during the academic year. The College makes every effort to keep the residence charge low and the present rates are possible only because the students have agreed to assume the major responsibility for keeping their rooms clean and in order, thus permitting a reduction in service. Failure on the part of a student to meet the requisite standard in the care of her room may cause the College to refuse her residence the following year.

All the halls are closed during the Christmas vacation; one hall is kept open during the spring vacation and here undergraduates may occupy rooms at a fixed rate per day. A student not going to her own home for either vacation, and not staying in the hall kept open during spring vacation, must submit her plans for the holiday to the Dean for approval, and must register her address with the warden of her hall.

NON-RESIDENT STUDENTS

Students who live with their families in Philadelphia and the vicinity have at their disposal a room in the Library where lockers are provided. Their college mail and notices about campus activities are sent to this room. Rooms in Goodhart Hall for teas and special occasions are also available on request.

When space permits, non-resident students may make arrangements with the Director of Residence to have meals in the residence halls. Meals are also readily available at the College Inn, which is on the campus.

Non-resident students are liable for all undergraduate fees except those for residence in the hall. The non-resident Infirmary fee of \$15.00 entitles them to medical examination and consultation with the College Physician.

The warden of one of the halls of residence serves as warden to the non-residents.

Fees

TUITION

BEGINNING with the year 1958-1959, the tuition fee for all undergraduate students, resident and non-resident, and for hearers will be \$1100 a year. The fee is payable on receipt of the bill sent in October. No reduction or refund of the tuition fee will be made on account of absence, illness, dismissal, or for any other reason.

The average cost of teaching each undergraduate student is over \$1700 a year. The difference must be met from the endowment funds of the College and from private gifts. Voluntary contributions from parents able and willing to pay the additional sum or part of it are most welcome and help to meet expenses of instruction.

RESIDENCE

The charge for residence beginning with the year 1958-1959 will be \$1050, \$1150 or \$1250, according to the size and location of the student's room or rooms. There is an additional fee of \$50 for residence in a language house. The residence fees are payable as follows:

\$1050—payable \$525 in October, \$525 in February

\$1150—payable \$575 in October, \$575 in February

\$1250—payable \$625 in October, \$625 in February

Application for Residence. A student in residence, who wishes to apply for a room for the following year, must make an application for a room and accompany it with an application fee of \$10. This fee will be credited against the residence charge if the room assigned is occupied by the applicant; it will not be refunded in any circumstance. Each student enrolled for the following year must make an additional deposit of \$40 not later than June first. This deposit will also be credited against the residence charge. It will be returned if the student withdraws from College before July first; it will not be returned if she withdraws later than July first.

New students applying for residence will be billed \$50 in the spring. This \$50 will be credited against the residence charge, but it will not be returned in case of withdrawal after July first.

Note: Fees for 1957-1958:

Tuition \$850

Residence \$1000, \$1100, \$1200, according to size and location of the rooms, payable as above.

An applicant who, after having reserved a room, fails to cancel her reservation by September first (even though she does not occupy the room at all or vacates it during the college year) prevents some other student from obtaining accommodation and consequently admission to the College. Therefore, unless formal notice of withdrawal of application for the ensuing academic year is received by the Dean of the College by September first, the applicant is responsible for the residence charge (based upon the room assigned to her) for the whole year, or if a definite room assignment has not been made, the applicant is responsible for the minimum residence charge of \$1050; subject to an allowance for the cost of food, and a further allowance if the College re-rents the room to a student not previously resident. The applicant is not entitled to dispose of the room.

Reduction of Charges for Absence from College. In case of illness or withdrawal from the College for a period of six consecutive weeks or longer there will be a reduction in the charge for residence (representing the reduced expense to the College for food), provided written notice is given to the Dean of the College at the time of withdrawal, or, in the case of illness at home, as soon as possible. Verbal notice to wardens or instructors is not sufficient to secure this reduction.

SUMMARY OF MAJOR EXPENSES FOR 1958-59

For resident students, tuition and residence: \$2150, \$2250, or \$2350 according to the type of accommodation.

For non-resident students, tuition: \$1100.

Minor Fees and Charges

Infirmity fee for non-resident students. . \$15.00

Laboratory courses (or, in geology, field work) for materials and apparatus:

One course of 2 hours or less a week	\$ 7.50	} a semester
One course of more than 2 hours a week	15.00	
Two courses of more than 2 hours a week.....	25.00	
Three courses of more than 2 hours a week.....	30.00	

Residence in a language house 50.00 a year

Graduation fee (payable in the senior year)..... 20.00

Health Insurance (Students' Reimbursement Plan),

optional 15.00 a year

Bills will be rendered by the Comptroller within the first few days of each semester. Students whose fees and charges are not paid before November first in the first semester and before March first in the second are not permitted to continue in residence or in attendance on their classes. The Tuition Plan is available for parents who prefer to pay fees in monthly instalments. For details, see page 38.

General Information

STUDENT ADVISING

THE Deans are responsible for the general welfare of undergraduates, and students are free to call upon them for help and advice on academic or more general problems. The Dean of Freshmen is the adviser to the freshman class and the Dean of the College and the Assistant Dean are the advisers to upperclassmen. The warden, the college officer in charge of each residence hall, is a member of the Dean's staff and stands ready to assist students. The College Physician, the consulting psychiatrists and vocational advisers are also available to all students. The Deans and the wardens will always give students information about appointments with these specialists.

For freshmen, the College provides a special period of orientation. Freshmen are asked to come into residence three days before the College is opened to upperclassmen. The wardens of the various halls and a committee of upperclassmen welcome the freshmen and are available to answer questions and give advice. During these days the freshmen have interviews with either the President or the Dean of the College and consult with the Deans on registration for courses. New students also take placement tests and a physical examination. To acquaint them with the many other aspects of college life, varied activities are sponsored by undergraduate organizations.

ACADEMIC STANDARDS AND REGULATIONS

Faculty rules governing academic work and the conduct of courses are stated in the "Academic Rules for Undergraduate Work." Rules concerning the Academic Honor System and student conduct are stated in the Self-Government Handbook given to each freshman.

Each student's academic work must be of sufficiently high quality to meet the academic standards set by the College. The Senate of the College, composed of one faculty member from each department, reviews the records of those students whose work has fallen below the required standard. In such cases the Senate may set specific requirements to be met by the student concerned and may also curtail privileges. In extreme cases, the Senate may recommend exclusion from college.

Integrity of all work is demanded of every student. Information about the Academic Honor System dealing with the con-

duct of examinations, written quizzes, and other written work is given to all entering students, who must sign a statement that they have read, understood and accepted the rules. Any infraction of these regulations or any action contrary to their spirit constitutes an offense. Infractions are dealt with by an Administrative Board under the chairmanship of the President of the College. The members of the board are the four college-elected members of the Executive Board of the Bryn Mawr Students' Association for Self-Government, three members of the faculty and the Dean of the College or representative of the administration.

ATTENDANCE AT CLASSES

Regular attendance at classes is expected. Responsibility for attendance rests solely with each student. When the quality of a student's work is affected in any way by absence from class, she will be warned in writing by the Dean. If she continues to cut after the warning she will be dropped from the course and reported to the Senate. A student who is dropped from two courses will be suspended from the College, by rules of the Senate, for the remainder of the semester.

Absences for health or other urgent reasons are excused by the Dean, but any work missed must be made up. After a brief absence the student should consult her instructor about making up any work so missed. After a prolonged absence the Dean must be consulted as well as the instructor. If it seems probable to the Dean that a student's work may be seriously handicapped by the length of her absence, she may be required to drop one or more courses. Any student absent for more than twenty-five consecutive class days will generally be required to drop a course.

EXCLUSION

The College reserves the right to exclude at any time any student whose conduct or academic work is unsatisfactory. In such cases the fees due or already paid to the College will be neither refunded nor remitted in whole or in part.

HEALTH

An extensive program including periodic physical examinations, and during the first two years regular work in the Department of Physical Education, has been established to help students develop and maintain optimum conditions of health. Students receive clinic and hospital care in the College Dispensary and Infirmary, where the College Physician is in daily attendance.

The Bryn Mawr Hospital and other excellent hospitals in nearby Philadelphia offer additional medical and surgical facilities.

The College Physicians and College Psychiatrists may be consulted by the students without charge. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The fees of consultants recommended by the College will be furnished on request. No student while in residence should consult an outside physician without previously informing the College Physician. Any student who leaves the campus for reasons of health must notify the Dean, the College Physician or Head Nurse before she leaves.

Certain health regulations must be met by all entering students. A medical examination blank provided by the College must be filed before July first. As part of this health report, certification of immunization against tetanus and diphtheria, vaccination against smallpox and an ophthalmologist's certificate are required. (Students who have failed to hand in these reports will have the necessary examinations and immunizations on arrival at college and will be charged accordingly.)

The ophthalmologist's examination must be repeated before the beginning of the junior year. Failure to meet this requirement entails a fine and an examination by one of the college consultants, for which the student will be charged accordingly.

At the beginning of each year every student must have a chest X-ray taken free of charge by the Bureau of Tuberculosis Control, State of Pennsylvania Department of Health, which sends an X-ray-mobile to the Bryn Mawr campus. If a more complete X-ray analysis is indicated, it can be made at the Bryn Mawr Hospital at the prevailing rates for private patients.

Every undergraduate is examined in her freshman and senior years by the Physician of the College and in her freshman year by the Director of Physical Education with reference to physical development and general health. Students who have special health problems are examined more frequently. A student who at the time of an examination or at any other time during the year is not in good health is required to follow the special regime prescribed, and her extracurricular activities may be limited.

The residence fee paid by resident students entitles them to treatment in the College dispensary and to care in the College Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the College Physicians during this time,

and to general nursing. In cases requiring a special nurse, the expense incurred must be paid by the student. This is mandatory in cases of serious illness and strict isolation. The fee for each day in the Infirmary after the seven-day period is seven dollars. The Infirmary is open when college is in session and during the spring vacation. It is closed during the Christmas vacation.

Non-resident students must pay a fee of \$15.00 which entitles them to unlimited dispensary and laboratory service and free consultation with the College Physician and Psychiatrists. Married non-resident students who maintain their own homes need not pay the Infirmary fee unless they desire dispensary privileges.

All communications from parents and guardians, outside physicians and others, concerning the health of the students, should be addressed to the Dean of the College or the College Physician. Any student who becomes ill when absent from College must notify the Dean of the College immediately and present a signed statement to the Infirmary from her physician when she returns.

The College reserves the right, if the parents or guardians cannot be reached, to make decisions concerning operations or other matters of health.

The College has arranged with the Connecticut General Life Insurance Company of Hartford, Connecticut, for health insurance, known as the Students' Reimbursement Plan. Individual policies are available for resident students which provide for reimbursement, within specified limits, for the medical, surgical and hospitalization expenses in cases of operation and prolonged illness. The cost of such a policy is fifteen dollars a year and includes protection during all vacations. Application forms may be obtained from the Comptroller of the College.

THE TUITION PLAN

Since some parents prefer to pay tuition and other college fees in equal monthly instalments during the college year, the College offers this convenience under The Tuition Plan, Inc., of New York City. The cost is four per cent greater than when payment is made in cash. If the plan of payment in equal monthly instalments is preferred, notification should be sent to the Comptroller of the College by September fifteenth. The Tuition Plan contract accompanied by the College bill will be sent by Tuition Plan to parent or guardian after October first.

Curriculum

THE undergraduate curriculum is designed to achieve two main purposes: to give a broad and sound education in the liberal arts and sciences, and to provide adequate preparation for advanced study for those students who wish to enter graduate and professional schools.

For the purpose of providing breadth in the curriculum the College has established the following requirements which must be met by each candidate for the A.B. degree regardless of her choice of major subject: (1) Freshman English composition, (2) History of Philosophic Thought, (3) one course in the natural sciences, (4) one course in literature and (5) one course in the social sciences or history. Each student must also demonstrate a knowledge of two foreign languages. This may be done by (1) attaining a score of 590 on a College Board achievement test, (2) passing examinations which are offered by the College every spring and fall, or (3) passing with a grade of at least 70 a college course above the elementary level.

The major subject, chosen at the end of the sophomore year, is combined with work in allied subjects. The purpose of the major subject is to give each student the kind of training which continuity in the study of one field of knowledge provides. As she progresses toward more complex advanced work she acquires a deeper insight into the fundamental principles and general concepts of her subject. At Bryn Mawr the departments which offer major courses of study are: Biology, Chemistry, Classical Archaeology, Economics, English, French, Geology, German, Greek, History, History of Art, Italian, Latin, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Russian, Sociology and Anthropology, Spanish. There are also departments of Education and History of Religion, in which elective work may be taken although no major is offered.

Each major department offers Honors work to a number of its senior students who have demonstrated unusual ability. Honors work is of a more advanced character than that done in the regular courses and requires more initiative and power of organization than is usually expected of undergraduate students. Such work may be carried on in connection with an advanced

course or may be planned especially for individual students. It usually includes independent work of a critical and analytical nature with source material, periodic reports and the preparation of an Honors paper. To be eligible, a student must have completed two years of study in the major subject and her candidacy must be approved by the Dean and the Curriculum Committee. The Honors work must be undertaken in addition to at least one full unit of advanced course work.

The plan for the curriculum determines the framework within which each student constructs her own program of courses.

The minimum of $15\frac{1}{2}$ units of work for the A.B. degree is distributed as follows: $4\text{--}5\frac{1}{2}$ units meet general college requirements, approximately 7 units constitute work in the major subject including allied work and the preparation for the Final Examination in the major subject, which are required of all students. The remaining units ($3\text{--}4\frac{1}{2}$) are for courses to be elected freely by the student. Each full year course is the equivalent of one unit of work and each course constitutes one quarter of a student's working time for one year. For the benefit of transfer students, one course is the equivalent of 8 semester hours. In most cases, Freshmen, Sophomores and Juniors take 4 units of work and Seniors $3\frac{1}{2}$ including the unit of preparation for Final Examination in the major field. This preparation usually consists of independent reading and conferences with members of the major department designed to review and correlate the material covered in the major.

The plan may be outlined as follows:

I. A total of at least $15\frac{1}{2}$ units of work must be presented by all candidates for the A.B. degree. The total is made up of $14\frac{1}{2}$ units of course work and one unit of preparation for the final examination in the major subject.

II. The $14\frac{1}{2}$ units of course work must include the following:

1. The course for Freshmen in English Composition. This course is supplemented by work in English Speech consisting of individual conferences which must be completed before the end of the Sophomore year.

2. A course in Literature to be chosen from courses in English and Biblical Literature, Greek, or Latin.

3. A course in one of the following sciences: Biology, Chemistry, Geology or Physics.

4. The course in History of Philosophic Thought.

5. A course in social science to be chosen from courses in Economics, History, Political Science, Psychology or Sociology and Anthropology.

6. Although no specific course or courses are required, each student must demonstrate in one of the ways listed on page 39 a knowledge of two foreign languages.

Language examinations may be taken in any autumn or spring after entrance, up to the beginning of the senior year. A Senior who fails either examination or is conditioned in both in the autumn will not receive her degree the following June. If having passed one examination she is conditioned in the other, she may take a second examination in January.

III. The total number of at least $15\frac{1}{2}$ units of work must include a major subject chosen at the end of the sophomore year. The major subject must consist of:

1. Six units of work to be distributed as follows:

a. At least three and usually four courses of work in the major field. Of these one or two must be second-year courses, and one must be advanced.

b. The remaining number of courses to make up the required total of six to be chosen among the courses listed by the major departments as acceptable for allied work.

2. One unit of preparation for the Final Examination in the major subject. All students who receive the degree must have passed this examination.

IV. Elective work. The remaining units of work which make up the required total of $15\frac{1}{2}$ are devoted to elective courses. Students may choose freely any courses which do not have prerequisites or any courses whose prerequisites they can meet.

V. Grades. Numerical grades on the scale of 100 are given in all courses counting for the degree. Each student must attain a grade of 70 or above in at least half of these courses and a grade

of at least 60 in the remainder. In all courses in her major subject, she must attain grades of 70 or above. Should she receive a grade below 70 in a second year or advanced course in her major subject, she may be required to change her major.

VI. The degree of Bachelor of Arts is conferred upon students who have completed the course of study described above. The degree is awarded *cum laude*, *magna cum laude*, and *summa cum laude* to students whose numerical average grades in all their courses is 80-84, 85-89, 90 or above respectively. To students who have completed Honors work in their major subject the degree is awarded with honors in that subject.

VII. Credit for work taken elsewhere:

1. Transfer credit (see page 26)
2. Cooperation with Neighboring Institutions

Under the three-college plan for cooperation, full-time students at Bryn Mawr may register for courses at Haverford College and Swarthmore College without payment of additional fees. Such registrations must be approved by the Dean and the departments concerned. Credit toward the Bryn Mawr degree will be granted for such courses.

3. Summer School Work

Students desirous of supplementing their work at Bryn Mawr by taking courses in summer school are encouraged to do so. Academic credit is granted for summer school work only under special circumstances. For example, students who have been absent from college because of illness may present summer school work to make up the credits needed for the Bryn Mawr A.B. degree. Summer school work recommended by the major departments as part of the plan of major work may also be presented for credit. No credit will ever be given for work in which a student has received a grade below C. Students who wish to present summer school work for credit should first obtain approval of their plan from the Dean and from the department concerned. Credit given for such work will be calculated on an hour-for-hour basis.

VIII. Supplementary requirements for the Degree:

1. In addition to completing the course of study outlined above, all candidates for the A.B. degree must take the following work:

a. All students must fulfill the requirement in English Speech. This consists of an interview-test during the freshman year, to be followed by remedial work (in conference, without credit), ordinarily throughout the first semester, for those needing it.

b. Hygiene

All students must meet the requirement in Hygiene. This consists of an examination which is based on reading assigned by the College Physician and the Consulting Psychiatrists and given each spring. Students must pass the required examination no later than the spring of the junior year.

c. Physical Education

All students must meet the requirement in Physical Education, which consists of work taken throughout the freshman and sophomore years (see page 105).

2. Residence—Every candidate for the degree of Bachelor of Arts unless she is a transfer student or is permitted to accelerate her program must attend Bryn Mawr College for a period of four years. Students admitted on transfer from other colleges must study at Bryn Mawr for at least two years.

PREMEDICAL PREPARATION

Bryn Mawr through the curriculum in liberal arts and sciences, provides the opportunity of meeting requirements for admission to the leading medical schools of the country, and each year a number of its graduates enter these schools. The minimal requirements for most medical schools are met by the following courses: Biology 101, Chemistry 101, Chemistry 202, Mathematics 101, Physics 101. Some medical schools require also Chemistry 201a, and reading facility in French and German.

These requirements are fulfilled by a major in Biology, with the election of Mathematics 101 and Physics 101, or by a major in Chemistry, with the election of Biology 101. They can be met by a major in other subjects, such as literature or

history, with careful planning of the student's courses during her four years at Bryn Mawr and some work in the summer at an institution giving summer courses acceptable either to Bryn Mawr in substitution for its regular course work, or to the medical school of the student's choice as preparation for its courses of study.

The College is able to award a number of scholarships for medical study from funds given for that purpose by friends interested in the advancement of women in medicine. These may be applied for on the student's admission to medical school and are awarded at the end of her senior year, for use during the first year of medical study with the prospect of renewal for later years if her need and her record in medical school warrant it.

COORDINATION IN THE SCIENCES

In 1935, a grant from the Carnegie Corporation of New York enabled the College to put into operation a plan for coordination in the sciences. Under this plan, the science departments offer an unusual kind of science training, providing instruction in overlapping fields of natural science and related subjects, such as biophysics, geochemistry, or psychophysics. This kind of training necessarily demands a thorough grasp of the fundamentals of at least two of the sciences, and usually also of mathematics. This training may be obtained in the first three years of undergraduate study and the interrelated work begun in the senior year and continued in the Graduate School.

Through this grant, the College is also able to offer both undergraduate and graduate scholarships to students who wish to prepare themselves for future work in these relatively new and extremely fruitful areas of scientific investigation. The chairmen of the Departments included in this plan (Biology, Chemistry, Geology, Mathematics, Physics, Psychology) will be glad to see students interested in it and to advise them about their courses of study. Such students should consult with the chairmen of the Departments in which their special interests lie as early in their course as it is possible to do so.

INTERDEPARTMENTAL COURSES

Each year, certain courses are offered which cut across well defined areas of knowledge and emphasize relationships among

them. Such courses are taught by two or more members of the faculty working in close cooperation. Since the material considered requires some background in at least two disciplines, the interdepartmental courses are usually offered at the advanced level. For students who have progressed to the more complex aspects of their major subjects, the interdepartmental courses provide opportunities to apply their training to new and broader problems, and to benefit from the experience of seeing their own subject from the points of view of several specialists. To facilitate free discussion registration is generally restricted to a limited number of well-qualified students.

LANGUAGE HOUSES

Wyndham is a small residence open to upperclassmen who wish to speak French. Residence in the language house requires adequate preparation in French, and students accepted agree not to speak English at any time while living in the French House. Residence in a language house provides an excellent opportunity to gain fluency in the speaking of a foreign language and is highly advisable for students planning to spend the junior year abroad. Whenever there is sufficient demand, similar residences are available to students of German and Spanish.

THE JUNIOR YEAR ABROAD

Qualified students may apply for admission to the various groups spending the junior year in Europe. Bryn Mawr students may study in Paris under the Junior Year in France Plan sponsored by Sweet Briar College; in Geneva, Florence, or Madrid with groups organized by Smith College, or in Munich with the group sponsored by Wayne University. Applicants must have excellent academic records and must give evidence of competence in the language of the country in which they plan to study. In general, two years of study of the language at the college level are necessary to provide adequate preparation. The junior year groups are not limited to language majors; they often include majors in, for example, History of Art, History or the Social Sciences. All students who plan to study abroad should consult with the chairmen of their major Departments in order to be certain that the work done in Europe may be coordinated with the general plan for the major subject.

SCHOLARSHIPS AND OTHER STUDENT AID

All students are, strictly speaking, on scholarship in the sense that their tuition fees do not wholly cover the costs of instruction. To those students well-qualified for education in liberal arts and sciences but unable to meet the college fees, Bryn Mawr is able to offer further scholarship aid. Alumnae and friends of the College have built up endowment for scholarships over many years. Annual gifts from alumnae and alumnae clubs and from industries add to the amounts available each year. It is now possible to provide at least partial scholarships for a quarter to a third of the undergraduate students. Full information about the scholarships available and other forms of help in meeting the expenses of college education will be found on pages 106-123.

Courses of Study

1957 - 1958

Key to Course Numbers and Symbols

- 1, 2, 3indicate elementary and intermediate courses.
With the exception of Greek 1 and Russian
1 these courses are not part of the major
work.
- 101, 102, etc.indicate first-year courses in the major work.
- 201, 202, etc.indicate second-year courses in the major
work.
- 301, 302, etc.indicate advanced courses in the major work.
- *indicates elective courses, open to all students
without prerequisite unless a specific pre-
requisite is stated.
- athe letter "a", following a number, indicates
a half-course given in the first semester.
- bthe letter "b", following a number, indicates
a half-course given in the second semester.
- cthe letter "c", following a number, indicates
a half-course given two hours a week
throughout the year.
- []Square brackets enclosing the titles of courses
indicate that these courses, though regular
parts of the program, are not given in the
current year.

In general, courses which are listed as full-year courses must be carried through two semesters. In some cases one semester of such a course may be taken with credit, but only with permission of the Dean of the College and the Department concerned. Students are reminded that one unit of work carried throughout the year is the equivalent of eight semester hours.

Biology

PROFESSORS:

MARY S. GARDINER, PH.D.,
Chairman

L. JOE BERRY, PH.D.

ELEANOR A. BLISS, SC.D.

JANE M. OPPENHEIMER, PH.D.

ASSISTANT PROFESSOR:

ROBERT L. CONNER, PH.D.

DEMONSTRATORS:

ANNA CHAO, A.B.

JANE ROYLE McCONNELL, PH.D.

WANDA SPRINGER, A.B.

PHOEBE R. STARFIELD, A.B.

The courses offered are designed to present the principles underlying biological science to liberal arts students interested in man's understanding of the world in which he lives and his own position in it. Primary consideration is devoted to the interplay of development, structure and function in determining the unity and diversity which characterize the plant and animal kingdoms, and to the historical and dynamic interrelationships of living organisms with each other and with their environments. In the laboratory the student learns by dissection and microscopic study the gross and detailed anatomy of representative animals and plants, and by experimentation the functional relationships within them and their operation under natural and controlled experimental conditions.

REQUIREMENTS IN THE MAJOR SUBJECT: Biology 101, 201, and 202; one advanced course, and as allied work, Chemistry 101 and 202. Students offering two fields in Biology for the final examination, in addition to the examination in General Biology, must take two advanced courses. Physics 101, Mathematics 101 and Chemistry 201 are strongly recommended as allied work, and are required for admission to some medical schools. The Biology Department has no special language requirements but students should note that the ability to read French and German is essential for those expecting to do graduate work and is required for admission to some medical schools.

ALLIED SUBJECTS: Chemistry, Physics. Other subjects may be included, with the approval of the Department and the Dean of the College.

101. *General Biology*: Miss Gardiner, Miss Oppenheimer.

A presentation of the fundamental principles of development, structure and function in organisms. A wide range of plants and animals is studied to illustrate broad biological problems and theories of historical and contemporary interest. Lectures three hours, laboratory four hours, per week.

201. *Comparative Zoology*: Miss Oppenheimer, Miss Gardiner.

A study, supplementing that of the first-year course, of the anatomy of representative vertebrates and invertebrates, their natural history and possible evolutionary relationships. Lectures three hours, laboratory four hours, per week.

202. *General Physiology*: Mr. Conner, Mr. Berry.

A study of the functional problems met by living systems and of the mechanisms by which they are solved. General principles are emphasized, in particular those related to vertebrates. Lectures three hours, laboratory five hours, per week. Prerequisites: Chemistry 101, Chemistry 202 (may be taken concurrently).

301. *Development and Inheritance*: Miss Oppenheimer, Miss Gardiner

A study of the major problems of differentiation in organisms and tissues; its control by nuclear and cytoplasmic agents. Lectures two hours, laboratory six hours (minimum) per week. This may be taken concurrently with Biology 202.

[302. *Developmental Physiology*: Miss Oppenheimer.]

Discussion of factors controlling growth and differentiation in vertebrates and invertebrates. Lectures two hours, laboratory six hours (minimum) per week. This may be taken concurrently with Biology 202.

303. *Physiology of Micro-organisms*: Mr. Berry.

An introduction to the fundamental physiological and biochemical principles associated with studies of micro-organisms, including host-parasite relationships and other interactions between organisms. Major emphasis is given to bacteria and bacteriological techniques. Lectures two hours, laboratory six hours (minimum) per week. Prerequisites: Biology 202, Chemistry 202.

[304. *Microanatomy*: Miss Gardiner.]

The study of tissues and cells, with consideration of the methods of preparing material for microscopic study.

305. *Biochemistry*: Mr. Conner.

The chemistry of living organisms with special emphasis on the chemical principles in physiological phenomena. Lectures two hours, laboratory six hours (minimum) per week. Prerequisites: Chemistry 202; Physics 101 is strongly recommended.

[306. *Biophysics*: Mr. Berry.]

A study of the advantages and limitations of applying methods and theories of physics or of physical chemistry to living systems. Topics for discussion may be selected by the class. Lectures two hours, laboratory six hours (minimum) per week. Prerequisites: Biology 202, Chemistry 202; Physics 101 is strongly recommended.

FINAL EXAMINATION: The final examination is in three parts:

1. General Biology (required of all students).
2. Two examinations from the following group: Biochemistry, Biophysics, Development and Inheritance, Development of Scientific Thought, Embryology, Microanatomy, Physiology of Micro-organisms.
3. For one of the examinations in Part 2, students may substitute:
 the Honors paper
 or
 an examination in Chemistry or Physics covering at least two years of work in that subject.

Other subjects may be accepted for the third examination provided that at least two years of work have been done in the one offered.

HONORS WORK: Honors work in any of the advanced fields is offered for qualified students.

Chemistry

PROFESSOR:	ERNST BERLINER, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR:	GEORGE L. ZIMMERMAN, PH.D. ¹
ASSISTANT PROFESSORS:	FRANCES BONDHUS BERLINER, PH.D. ² EDITH HAMILTON LANMAN, M.A. FRANK B. MALLORY, A.B.
VISITING LECTURER:	EUGENE NIXON, PH.D.
LECTURER:	JOSEPH VARIMBI, PH.D.
ASSISTANTS:	ISABEL B. ECHIKSON, M.A. JANICE GORDON, A.B. ADELAIDE W. MAUCK, A.B.

The major in Chemistry is designed to give the student a sound background in the four major fields of Chemistry: Inorganic, Analytical, Organic and Physical Chemistry. The courses are arranged in such a sequence as to convey an insight into the development of chemical theories from basic scientific principles. In the advanced courses the student begins to be acquainted with current problems in special fields and with modern approaches to their solutions. The emphasis throughout is on the fundamental principles on which Chemistry is based and which are exemplified and further clarified by laboratory work taken in conjunction with each course.

REQUIREMENTS IN THE MAJOR SUBJECT: Chemistry 101, all 200 courses and one and one-half units of advanced work. Physics 101, Mathematics 101 and a reading knowledge of German and of French or Russian are also required. Students are urged to take also Mathematics 201.

ALLIED SUBJECTS: Biology, Geology, Mathematics, Physics.

101a. *General Chemistry*: Mr. Berliner.

An introduction to the theories of chemistry and the study of the non-metals. No knowledge of chemistry is presupposed. Three lectures, four hours laboratory a week.

101b. *Qualitative Analysis and the Chemistry of the Metals*:

Mr. Mallory, Miss Lanman and demonstrators.

Systematic qualitative analysis of inorganic substances and the theories on which it is based. A study of the metallic elements. Three lectures, four hours laboratory a week.

1. On sabbatical leave for the year 1957-1958.

2. On leave of absence for the year 1957-1958.

201a. *Quantitative Analysis* (first semester): Miss Lanman.

Theories and practice of the quantitative determination and separation of inorganic substances. Two lectures, eight hours laboratory a week.

202. *Organic Chemistry*: Mr. Berliner, Mr. Mallory.

First semester: aliphatic chemistry; second semester: aromatic chemistry and natural products. Three lectures, five hours laboratory a week.

203. *Physical Chemistry*: Mr. Varimbi.

Structure and kinetic-molecular theory of matter, elementary thermodynamics and chemical kinetics. Two lectures, five hours laboratory a week. Prerequisites: Mathematics 101 and Physics 101 (the latter may be taken concurrently).

301 (a and b). *Advanced Inorganic Analysis*: Miss Lanman.

One lecture, eight hours laboratory a week. Can also be taken for one term only ($\frac{1}{2}$ unit).

302 (a and b). *Advanced Organic Chemistry*: Mr. Mallory, Mr. Berliner.

Lectures: theories and fundamental principles of organic chemistry. Laboratory: (first semester) organic qualitative analysis; (second semester) advanced synthesis and quantitative organic analysis. Two lectures, six hours laboratory a week. The first semester may be taken without the second ($\frac{1}{2}$ unit).

303 (a and b). *Advanced Physical Chemistry*: Mr. Varimbi.

First semester: systematic chemical thermodynamics; second semester: atomic and nuclear structure, elementary quantum theory. Two lectures, six hours laboratory a week. The first term may be taken without the second ($\frac{1}{2}$ unit).

FINAL EXAMINATION: The examination consists of three parts:

1. General Chemistry (required of all students).
2. Two examinations from the following group:
 - a. Analytical Chemistry
 - b. Organic Chemistry
 - c. Physical Chemistry
3. For one of the subjects in Group 2, an examination in an allied subject, covering at least two years of work, may be offered. In that case the student need only take one unit of advanced work.

HONORS WORK: Honors work may be taken by qualified students in conjunction with any of the advanced courses or after their completion.

Classical Archaeology

ASSOCIATE PROFESSOR:	MACHTELD JOHANNA MELLINK, PH.D., <i>Chairman</i>
ASSISTANT PROFESSOR:	ALEXANDER CAMBITOGLU, PH.D.
CURATOR OF SLIDES AND PHOTOGRAPHS:	HENRIETTA HUFF LANDES, A.B.
ASSISTANT:	BRUNILDE SISMONDO, M.A.
PROFESSOR OF ANTHROPOLOGY:	FREDERICA DE LAGUNA, PH.D.

The major courses provide an extensive survey of the ancient Mediterranean civilizations, with emphasis on the Greek arts of sculpture, architecture and vase-painting.

REQUIREMENTS IN THE MAJOR SUBJECT: Classical Archaeology 101, 201, 203, and 301.

ALLIED SUBJECTS: Ancient History, Anthropology, Greek, History of Art, Latin.

Lectures are illustrated by lantern slides; and for most courses photographs are available for study and review. A term paper or report is normally required.

101. *An Introduction to Ancient Art*: Miss Mellink, Mr. Cambitoglou.

In the first semester a general survey of the evolution of ancient art is given, beginning with the Egyptian and Mesopotamian heritage and tracing its importance first to Aegean art and then to the origins of Greek art proper. The major achievements of archaic and classical Greek art are discussed in some detail.

In the second semester, the principal features of Hellenistic, Etruscan and Roman art in Italy and throughout the Mediterranean world are studied down to the end of the Roman Empire in the West, ca. A.D. 476.

201a. *Egyptian and Mesopotamian Archaeology*: Miss Mellink.

An introduction to the cultures of the ancient Near East, stressing the origins of civilization and the rise of local traditions.

201b. *Aegean Archaeology*: Miss Mellink.

The pre-Greek cultures of the Aegean area; Minoan Crete and its relations; the encounter of pre-Greeks and Hellenes; the

first consolidation and expansion of Greek culture in the Mycenaean age.

[202a. *Cultural History of Archaeology.*]

The development of archaeology through the ages: antiquarian interests, early excavations and travels, the position and future of archaeology as a modern discipline.

[202b. *Ancient Greek Cities and Sanctuaries.*]

A new course intended to discuss in a comprehensive way the ancient form and general cultural importance of such sites as Athens, Delphi and Olympia, with excursions on history, religion and mythology connected with each center.

203a. *Greek Sculpture*: Mr. Cambitoglou.

The development of Greek sculpture from its beginnings to Roman times. A fourth hour weekly is devoted to informal conference and discussion. The term paper deals with some piece of sculpture selected by the student.

203b. *Roman Sculpture*: Mr. Cambitoglou.

The development of Roman sculpture from its beginnings in Etruscan and Greek Italy and the Hellenistic world to the end of the Roman Empire in the West, ca. A.D. 476. A fourth hour weekly is devoted to informal conference and discussion. The term paper deals with individual monuments or groups of sculpture selected by the student.

[204. *American Archaeology*: Miss de Laguna (See Anthropology 204).]

301a. *Ancient Painting*: Mr. Cambitoglou.

The development of Greek vase-painting as an original form of art, its relations to monumental painting, and its place in Greek archaeological research.

301b. *Ancient Architecture*: Miss Mellink.

The ancient architectural tradition in its historical context, with special study of the Greek temple as its dominant achievement.

[302a. *The Greek Style in Art*: Miss Mellink.]

Prerequisites: 101, 201, 203, 301. An analysis of the originality and consistency of style in the various fields of Greek art. The course will be conducted as a discussion group with reports and a term paper.

FINAL EXAMINATION: Three papers on any three of the fields covered by the undergraduate lecture courses, but with questions of broader scope involving more extensive knowledge. During their senior year majors attend weekly one-hour conferences in each of their selected fields. If a student wishes, she may write one of the three papers in an allied field.

HONORS WORK: A long written paper is submitted on some topic selected by the student and approved by the Department. In preparation, the student confers throughout the year with the member of the Department under whom the paper is prepared.

Economics

PROFESSORS:	MILDRED BENEDICT NORTHROP, PH.D., <i>Chairman</i>
	JOSHUA C. HUBBARD, PH.D.
ASSOCIATE PROFESSOR:	MORTON S. BARATZ, PH.D.
LECTURER:	MAXINE WOOLSTON, PH.D.
ASSISTANT:	ARANKA KOVAKS, M.A.

This major is designed (1) to provide the student with an understanding of the institutions and processes of the economic world in which we live, (2) to train her in the methods by which these institutions and processes may be analyzed, and (3) to enable her to evaluate the role played by economic forces in the political and social issues of the day.

REQUIREMENTS IN THE MAJOR SUBJECT: Economics 101, two units elected from 201, 202 and 203, and 301. Students are urged to take Mathematics 204 (Statistics) which will count as part of their allied work.

ALLIED SUBJECTS: Political Science, History, Philosophy, Psychology, Mathematics, Sociology and Anthropology, Modern Languages. Particular attention is called to the following courses as of special interest to economics majors: Mathematics 204 (Statistics), Geology 305* (Geography) and Political Science 210 (The Soviet System).

101. *Introduction to Economics:* Mr. Hubbard, Miss Northrop, Mr. Baratz.

This course analyzes the major problems involved in the allocation of resources, the distribution of income, the maintenance of economic stability, the provision of social security, and international economic relationships.

201a. *Industrial Organization*: Mr. Baratz.

A study of the development of modern industrialism with particular reference to the development of the modern corporation; corporation finance and price policy; the decline of competition and problems of government regulation and control.

201b. *International Economics*: Miss Northrop.

A study of international trade and international finance in theory and practice; the foreign economic policy of the United States; International Economic Organization; the impact of industrialism on underdeveloped nations.

202a. *Money and Banking*: Mr. Hubbard.

The function of money and banking in a credit economy; the history, organization and structure of the money and banking system of the United States; problems of the value of money.

202b. *Public Finance and Fiscal Policy*: Mr. Baratz.

A study of local, State, and Federal revenues and expenditures with particular emphasis on the Federal budget; fiscal policy as a positive means of shaping public taxation and expenditure so as to contribute to a stable full employment economy.

203a.* *The Labor Movement*: Mrs. Woolston.

History of the Labor Movement with emphasis upon the political and economic factors which have influenced its development and present characteristics; causes of labor disputes and methods for settlement.

203b.* *Employer-Labor Relations*: Mrs. Woolston.

Significance of collective bargaining; legal aspects; nature of the collective bargaining contract in various industries; wage determination; personnel policies and practices.

[204b. *Problems of Economic Change*: Mr. Hubbard.]

History of economic development with particular reference to the Industrial Revolution. Analysis of the problems of secular growth.

[301a. *History of Economic Thought*: Miss Northrop.]

An analysis of economic thought in the 18th and 19th centuries as it developed against the background of social and political change. Readings, among others, in the works of Smith, Malthus, Ricardo, Mill, Marx, Jevons and Marshall.

301a. *Contemporary Economic Thought*: Mr. Hubbard.

An analysis of economic thought in the 20th century. The national income, the determination of prices, fluctuations in economic activity, the determinants in the level of income and employment.

302b. *Comparative Economic Systems*: Miss Northrop.

A study of the major forms of economic organization with particular emphasis on those existing today.

FINAL EXAMINATION: The final examination for students majoring in Economics is in three parts:

1. An examination in general economic principles and problems.
2. An examination in Economic Theory.
3. An examination in one of the following:
 - a. Money and Banking, including Fiscal Policy
 - b. Industrial Organization
 - c. International Economics
 - d. The Business Cycle and Full Employment
 - e. Labor Economics including Wages and Wage Theory
 - f. The History of Economic Thought

With the permission of the major and allied departments, one paper may deal with an allied subject.

HONORS WORK: One unit of Honors work may be taken by students recommended by the Department.

Education

PRESIDENT

OF THE COLLEGE:

KATHARINE ELIZABETH MCBRIDE,
PH.D., LL.D., L.H.D., SC.D.

PROFESSOR AND DIRECTOR,

CHILD STUDY INSTITUTE: RACHEL DUNAWAY COX, PH.D.,
Chairman

LECTURER AND DIRECTOR,

THORNE SCHOOL: SUSAN E. MAXFIELD, M.S.

LECTURER:

ETHEL W. MAW, M.S.

ASSISTANT:

LELIA BRODERSON, M.A.

The work in Education is designed for students preparing for teaching or for work with children in a variety of fields. The curriculum treats the nature and development of the child, the psychology of teaching and learning, and principles of

measurement. It deals with the history, philosophy and objectives of the school as a social institution.

Though there is no major in Education, a sequence of courses in the Department will enable the student to utilize her liberal education in teaching. This sequence will satisfy the requirements of most states for certification to teach in the secondary school. It will provide a substantial part of the work required for the elementary teaching certificate. The student who wishes to prepare for teaching should consult with the chairman of the Department early in her college course. A course in General Psychology is a prerequisite to all the advanced work of the Department and should be taken not later than the sophomore year.

Practice-teaching, supervised by master teachers and integrated with an advanced course at the College, is carried on in the nearby schools of the Lower Merion Township.

The Phebe Anna Thorne School is maintained by the Department of Education as a laboratory for child study where undergraduates have experience with young children as part of the course work. The pre-school program, in which advanced students assist, provides training opportunities for those planning to teach.

The Department also operates the Child Study Institute. This is a clinic supported jointly by the College and the Lower Merion Township Schools for work in Child Development. Problems of learning and behavior are studied; psychological testing and remedial teaching are carried on. A program of counseling for children and their parents renders help in school and family adjustment. Advanced students participate in the work, and undergraduate and graduate students observe in the schools.

Referrals also come to the Institute from the neurological and pediatric departments of the Bryn Mawr Hospital, from psychiatrists and from social agencies, giving the students the opportunity for acquaintance with a diversity of clinical material. Rooms are equipped for the individual examination of pupils, remedial teaching, play therapy and student observation. Sound recording facilities are available for the study and improvement of counseling and testing techniques.

101b. *Principles of Education*: Mrs. Maw.

The organization and objectives of the school and the principles of child development, of learning and of guidance which should be taken into account if these objectives are to be achieved.

[102b. *History of Education*: Miss Maxfield.]

A study of the inter-relation of education and culture from earliest times to the present day with particular consideration given to current educational issues as they are rooted in the historical process.

201a. *Educational Psychology*: Mrs. Cox.

Principles of Psychology applied to teaching and learning. Problems of motivation, evaluation and adjustment. Group process and learning.

[202a. *Child Psychology*: President McBride, Mrs. Cox.]

The development of the child from infancy to maturity. Physical, intellectual and emotional growth and learning in the family and the school. Three hours lecture per week; two hours laboratory in the Thorne School. Prerequisite: Psychology 101.

301a. *Principles of Teaching in the Secondary School*: Mrs. Maw.

The objectives, curriculum and organization of the secondary school in American society. The nature of the learner and his relation to the school program and aims. Two-hour seminar per week; 12 hours practice-teaching in the junior or senior high school.

English

PROFESSORS:

K. LAURENCE STAPLETON, A.B.,

Chairman

STEPHEN JOSEPH HERBEN, B.LITT., PH.D.

ARTHUR COLBY SPRAGUE, PH.D.

MARY KATHARINE WOODWORTH, PH.D.

BETTINA LINN, M.A.

VISITING PROFESSOR:

SAMUEL C. CHEW, PH.D., LITT.D.

ASSOCIATE PROFESSOR:

WARNER B. BERTHOFF, PH.D.¹

ASSISTANT PROFESSORS:

DAVID BONNELL GREEN, PH.D.

ISABEL GAMBLE MACCAFFREY, PH.D.

ROBERT HAWES BUTMAN, M.A.

VISITING LECTURER:

HOWARD C. HORSFORD, PH.D.

INSTRUCTORS:

BARBARA M. CROSS, PH.D.

RAMONA T. LIVINGSTON, A.B.

MARILYN DENTON, M.A.

MARGARET C. PEARCE, B.S.

ROBERT A. WALLACE, A.B.

1. On sabbatical leave for the year 1957-1958.

To the student planning to major in English the Department offers courses covering all periods of English Literature. The student selects her fields within this broad range and devotes special attention to one period or literary genre.

REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in English must take English 101 unless they have the recommendation of the Department to enter a second-year course. They must complete four second-year and advanced courses in English Literature, of which at least one should be an advanced course. Students who wish to specialize in the field of Old and Middle English must take some courses in later periods, and those specializing in modern literature must take English 201 or, in exceptional cases, certain other courses approved by the Department. Credit will not be given for a single semester's work in full-year courses unless the Dean of the College recommends, and the Department approves, that an exception be made.

ALLIED SUBJECTS: Any other language or literature, History, History of Art, History of Religion, Music, Philosophy and certain courses in Classical Archaeology. Students are advised to devote one unit of allied work to a course in Greek or Latin or Greek Literature in Translation. Any second-year or advanced writing course may be substituted for one unit of allied work.

WRITING, LANGUAGE, AND SPEECH

1. *English Composition and Reading:* Miss Linn, Mrs. MacCaffrey, Mr. Green, Mrs. Livingston, Mrs. Cross, Miss Denton, Mr. Wallace.

Practice in writing based upon the study of selected authors, with emphasis upon ideas and the problems of the writer in his time. The student will read fiction, poetry, and critical and argumentative prose in one of the following fields: (a) Literature of the twentieth century; (b) American Literature, 1840 to the present; (c) English Literature from 1830-1900. There will be weekly papers and discussions, and regular conferences with each student.

In 209, 215a and 306 weekly papers are usually required. Students who cannot meet this requirement should not elect any of these courses.

- 209.* *Experimental Writing:* Mrs. MacCaffrey, Miss Denton.

Practice in various forms of writing, fiction and non-fiction. Attention is paid to the needs and interests of each student. Pre-

requisite: English 1 at Bryn Mawr or the written permission of the instructor.

210a.* *Playwriting and Production*: Mr. Butman.

Writing of two original one-act plays.

210b.* *Advanced Playwriting and Production*: Mr. Butman.

Writing of a full-length play and preparation of its production-book. Prerequisite: approval of the instructor.

[211.* *Verse Composition*: Miss Stapleton.]

Original verse composition, with a study of the principles of form.

213b.* *History of the English Language*: Mr. Herben.

215a.* *Prose Writing*: Miss Linn.

Practice in various forms, excluding fiction and with emphasis on exposition and description. Prerequisite: English 1 at Bryn Mawr or the written permission of the instructor.

[306* and 306c.* *Advanced Writing*: Miss Linn.]

Practice in various forms of writing with the emphasis on technical problems. Prerequisite: English 209.

LITERATURE

101. *Introduction to English Literature*: Mrs. MacCaffrey, Miss Denton.

A critical study of major works and representative writers, with emphasis upon the historical context and the growth of literary tradition.

201. *English Literature of the Middle Ages*: Mr. Herben.

The emphasis is upon Chaucer and his contemporaries. Sufficient instruction is given in Middle English to enable the student to read ordinary texts.

202. *Shakespeare*: Mr. Sprague.

In the first semester all the plays are read, and in the second semester two or three are studied in detail.

203. *The Romantic Period*: Mr. Green.

English Literature from 1789 to 1832. Attention is centered upon the poets.

[204. *The Victorian Period*: Mr. Green.]

Attention is centered upon the poets.

[205. *Representative English Novelists*: Miss Linn.]

A study of the development of English fiction, and of the novel as a literary form, through the works of selected novelists in the Eighteenth and Nineteenth Centuries. Prerequisite: the reading of two novels by each of the following: Charlotte Brontë, Dickens, Thackeray, George Eliot, Meredith.

[206a. *English Drama from the Restoration to Robertson*: Mr. Sprague.]

206a. *Modern English Drama*: Mr. Sprague.

The drama from 1865 to the present day.

207. *English and American Literature of the Last Half-Century*: Miss Woodworth.

The modern movement, its experiments and tendencies, with concentrated study of major writers, Yeats, Joyce, Eliot and others.

208. *American Literature*: Mr. Wallace.

From the beginnings to the present day.

212b. *Blake*: Miss Woodworth.

A study of the poetry, prose, paintings and engravings of Blake, with emphasis on intellectual history and the development of art in the period.

213a. *Mediaeval Narrative*: Mr. Herben.

Vernacular narrative literature of the West, from epic to romance. Works not in English will be read in translation.

214a.* *English Prose of the Sixteenth Century*: Mrs. McCaffrey.

The main intellectual currents of the period are studied, with reading in the major prose writers.

[301. *Old English Literature*: Mr. Herben.]

After some training in Old English grammar, selections from prose and poetry are read, followed by the *Beowulf*.

[302b. *The Drama from the Beginnings to 1642*: Mr. Sprague.]

A rapid survey of earlier periods is followed by closer study of Elizabethan and Jacobean drama, excluding Shakespeare.

[303b. *English Poetry from Spenser to Donne*: Mr. Sprague.]

The principal poets studied are Spenser, Sidney, Shakespeare (the narrative poems and the sonnets), and Donne.

304. *The Seventeenth Century*: Miss Stapleton.

Among the writers studied are Bacon; Donne and the Metaphysical poets; Ben Jonson and his school; Sir Thomas Browne. About a third of the time is devoted to Milton, and special attention is given to the thought of the period.

[305. *The Eighteenth Century*: Miss Woodworth.]

The age of Pope and Swift; the rise of the novel; Dr. Johnson and his circle.

FINAL EXAMINATION: The final examination is in three parts:

1. Literary criticism, literary genres, and problems of style. Based upon the reading of certain critical works of fundamental importance. Each student is expected to draw illustrative material from the fields in which she has elected to work.
2. An examination in one of the following periods. The student must choose a period other than that which embraces her special field.
 - a. The Middle Ages (to 1500)
 - b. The Renaissance (1500-1660)
 - c. Neo-classicism and Romanticism (1660-1832)
 - d. The Nineteenth and Twentieth Centuries (English or English and American)
3. An examination in one of the following fields of concentration: Old English; Middle English; The Drama to 1642; Elizabethan Literature, non-dramatic; The Seventeenth Century; The Eighteenth Century; Romanticism; Victorian Literature; The Novel; The Drama from 1660 to the Present Time; English and American Literature, 1890-1939; American Literature.

With the consent of the Department an examination in an allied subject may be substituted for the examination in the special field.

HONORS WORK: In the Senior year Honors work, consisting of independent reading, reports and conferences, is offered to students of marked ability whose major subject is English.

French

PROFESSOR:	MARGARET GILMAN, PH.D., <i>Chairman</i>
VISITING PROFESSOR:	WILLIAM J. ROACH, PH.D.
ASSISTANT PROFESSORS:	MICHEL GUGGENHEIM, PH.D. MARIO MAURIN, PH.D.
INSTRUCTOR:	PHILIP KOCH, PH.D.

The major in French includes work in both literature and language. In the first year students are introduced to the study of French literature, and special attention is given to the speaking and writing of French. Two second-year courses treat French literature from the beginning to the present day. In the advanced courses a more detailed study of certain authors, genres and movements is made. One second-year course is devoted to increasing the students' competence in spoken and written French. Students are encouraged to supplement their classroom study of the language by spending the Junior year in France, or a summer in France or French-speaking surroundings, or by living for a year or two in the French house.

REQUIREMENTS IN THE MAJOR SUBJECT: French 101, 201, 202, and one advanced literature course. Students whose preparation for college has included advanced work in language and literature may, with the consent of the Department, be admitted to French 201, and substitute an advanced course for French 101.

ALLIED SUBJECTS: Any other language or literature, European History, History of Art, Music, Philosophy.

1. *Elementary French*: Mr. Guggenheim.

The speaking and understanding of French are emphasized, particularly during the first semester. The course, which meets five times a week, is the equivalent of two years of school French.

2. *Intermediate French*: Mr. Guggenheim, Mr. Koch.

The emphasis on speaking and understanding French is continued, texts from French literature are read, and short papers are written in French.

101. *Readings in French Literature with Practical Exercises in the French Language*: Miss Gilman, Mr. Guggenheim, Mr. Koch.

The works read are chosen from various periods and genres, and include drama, poetry, novels and short stories. Oral expression and practice in writing are emphasized.

201. *French Literature from the Chanson de Roland to 1800*: Mr. Maurin, Mr. Koch.

202. *French Literature from 1800 to 1950*: Miss Gilman, Mr. Maurin.

203C. *Advanced Training in the French Language*: Mr. Maurin, Mr. Guggenheim.

301. *French Lyric Poetry*: Miss Gilman, Mr. Maurin.

In the first semester special attention is given to the poetry of the sixteenth and early seventeenth centuries, and in the second, to the poetry of the last hundred years.

[302. *French Drama*: Mr. Maurin, Mr. Koch.]

Special study is made of the drama of the seventeenth and twentieth centuries.

[303. *The French Novel from 1700 to 1950*: Miss Gilman, Mr. Guggenheim.]

304. *French Essayists and Moralists*: Mr. Maurin, Mr. Koch.

Man and his world as interpreted by such writers as Montaigne, Pascal, Diderot, Gide, Camus and Sartre.

JUNIOR YEAR ABROAD: Students majoring in French may by a joint recommendation of the Dean of the College and the Department of French be allowed to spend their Junior year in Paris under the Junior Year in France Plan, now under the auspices of Sweet Briar College.

FINAL EXAMINATION: The final examination is in three parts:

1. An oral examination to test the student's command of the French language.
2. A three-hour written examination on a period of French literature.
3. A three-hour written examination on the development of a literary genre through French literature.

An examination in an allied subject may be substituted for one of the two written examinations.

HONORS WORK: On the recommendation of the Department, students in their Senior year will be admitted to Honors work consisting of independent reading, conferences and a long paper.

Geology

PROFESSORS:

EDWARD H. WATSON, PH.D.,
Chairman

LINCOLN DRYDEN, PH.D.
DOROTHY WYCKOFF, PH.D.

INSTRUCTOR:

MARIE MORISAWA, M.A.

Appointment to be announced.

Geology seeks to make students more aware of the physical, natural world around them; to teach them how the present landscapes have been formed, and how modern plants and animals have evolved from earlier kinds. Physical processes like erosion, volcanic activity, and earthquakes form one large part of the subject; the history of the earth and the organisms which have peopled it form another. Geology borrows widely from its sister sciences, combining many disciplines into an attack on the problem of the earth itself. An essential part of any geologic training lies beyond the classroom, in field work.

REQUIREMENTS IN THE MAJOR SUBJECT: Geology 101, 201, 202, one advanced course. In addition, at least one of the following first-year courses are normally required: Biology, Chemistry, or Physics. The sixth unit may be chosen in Geology or in an allied field approved by the Department.

ALLIED SUBJECTS: Biology, Chemistry, Physics, Mathematics. Anthropology, Archaeology, Economics or Statistics may be accepted in special cases.

101a. *Physical Geology:* Mr. Watson, Miss Wyckoff, Miss Morisawa.

A study of the atmosphere, weathering, stream action, oceans, glaciers, earthquakes and volcanoes, and of the structures to which they give rise. Three lectures, four hours of laboratory or field work a week.

101b. *Historical Geology:* Mr. Dryden, Miss Wyckoff, Miss Morisawa.

The history of the earth from its beginning, and the evolution of the living forms which have populated it. Three lectures, two afternoons of laboratory or field work a week. A three-day field trip is taken in the spring.

201. *Mineralogy*: Mr. Watson.

Crystallography, elementary crystal optics, descriptive and determinative mineralogy, and elementary petrology and economic geology. Three lectures, six hours of laboratory work a week.

[202. *Paleontology*: Mr. Dryden.]

A systematic survey of animal groups in geologic time; in addition, a study of the environment of fossil life, and theories of evolution.

[301. *Structural and Field Geology*: Mr. Watson.]

The origin and analysis of the structures of igneous, sedimentary and metamorphic rocks, and geological surveying. Three lectures, six hours of laboratory or field work a week.

302. *Stratigraphy*: Mr. Dryden.

The origin and formation of sedimentary rocks; geologic history of typical regions of the United States; elements of petroleum geology; and study of the Ice Age.

303. *Optical Mineralogy* (first semester) and *Petrology* (second semester). Miss Wyckoff, Mr. Watson.

The optical properties of minerals and the use of the petrographic microscope. Discussion of the origin and differentiation of igneous rocks. Two lectures, about twelve hours of laboratory a week. Credit: $1\frac{1}{2}$ units.

[304. *Cartography*: Mr. Watson, Miss Wyckoff.]

Field surveying, drafting, photogrammetry, elementary geomorphology and general cartography. Open to students without previous work in Geology. Two lectures, two afternoons of laboratory a week.

[305. *Geography*: Miss Wyckoff.]

Discussion of geographic factors such as climate, soils, vegetation, land forms and mineral resources. General principles of economic and political geography. Three lectures, one afternoon of laboratory a week.

306. *The Development of Scientific Thought*: Miss Wyckoff, and other members of the Faculty.

(See Interdepartmental Course 203, page 104.)

FINAL EXAMINATION: This is in three parts:

1. An examination in general geology.
2. An examination in some special field in geology.
3. One of the following:
 - a. An additional special examination in geology
 - b. A general examination in an allied field
 - c. A written report on a piece of individual work

Preparation for this examination is spread over the last two or three years of the major course as a fortnightly colloquium, at which assigned reading and reports by students are discussed.

HONORS WORK: Honors work in any of the advanced fields is offered to any student who has completed the first two years in Geology with distinction.

German

PROFESSORS:

MYRA RICHARDS JESSEN, PH.D.,
Chairman

FRITZ MEZGER, PH.D.

ASSOCIATE PROFESSOR:

JOACHIM H. SEYPPPEL, PH.D.

ASSISTANT PROFESSOR:

MARTHA M. DIEZ, M.A.

INSTRUCTOR:

HERTA STEPHENSON

The purpose of the major in German is to lay the foundation for an understanding and appreciation of German literature and civilization. To this end comprehension of the German language, of both the spoken and the printed word, is indispensable; all courses above German 1 are therefore given in German and progressive linguistic training is provided. This work should be supplemented, whenever possible, by living in the German House, or by spending a summer in the Middlebury Summer School or in one of the summer schools of Germany, Austria or Switzerland; and/or by spending the Junior year in Munich with the Wayne University Group.

REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in German will be expected to take three units above the elementary level, including at least one advanced course.

ALLIED SUBJECTS: Any Language or Literature, History, Philosophy, Music, History of Art. The Department will advise which courses in these fields are acceptable.

1. *Elementary German* (Speaking and Reading): Members of the Department.

The course, meeting five times a week, offers the foundation of the language according to the aural-oral method, with emphasis on reading in the second semester.

101. *Introduction to German Literature*: Mr. Seyppel.

Survey of the main periods of German literature. Interpretation of texts from the early period to the present; brief oral and written reports.

- [201C. *German Composition*.]

Practice in the writing of German, based on readings in the cultural history of Germany; continued linguistic training.

202. *The Age of Goethe*: Mrs. Jessen.

German literary movements in the period 1750-1830, with emphasis upon the life and works of Goethe and his contemporaries. Brief written reports on reading.

- [301. *Advanced Training in Translation*.]

- [302. *The Classics of the Nineteenth Century*: Mr. Seyppel.]

A survey of German literary developments from the death of Goethe to Nietzsche and Hauptmann, with special emphasis upon the great dramatists and lyric poets. Short critical papers.

303. *German Literature from 1850 to 1940*: Mr. Mezger.

Reading of representative works selected from the following authors: G. Keller, C. F. Meyer, Storm, Fontane, Nietzsche, G. Hauptmann, Thomas Mann, Rilke, George, Hofmannsthal, Hesse, Binding, Carossa, Kafka, Wiechert, Schröder.

- [304. *Introduction to German Philology*: Mr. Mezger.]

Development of the German language in the various periods. Analysis of important works.

- [305. *Middle High German Literature*: Mr. Mezger.]

Reading of important works, partly in translation, partly in the original.

306. *The German "Novelle"*: Mrs. Jessen.

After a brief survey of earlier phases of this form, the course deals with its development from Goethe to Thomas Mann. Short critical papers.

[307. *The German Drama*: Mrs. Jessen.]

The history of the German drama from Lessing and the Period of the Enlightenment to modern times. Short critical papers.

FINAL EXAMINATION: The final examination for students majoring in German consists of three papers:

1. An examination on selected topics from the history of German literature, to be written in German.
2. An examination on the history of a literary form, or on the History of the German Language, or on an allied subject.
3. An examination on a period of German literature, or on an allied subject, if none has been offered under 2.

HONORS WORK: Qualified students are admitted to Honors work on the recommendation of the Department.

Greek

PROFESSOR:

RICHMOND LATTIMORE, PH.D.,
Chairman

ASSOCIATE PROFESSOR:

MABEL LOUISE LANG, PH.D.

VISITING LECTURER:

MICHAEL HAMILTON JAMESON, PH.D.

The courses in language and literature are designed to acquaint the students with the various aspects of ancient Greek culture through a mastery of the Greek language and a comprehension of Greek mythology, religion and the other basic forms of expression through which that culture developed. The works of epic and tragic poets, philosophers and historians are studied both in their historical context and in relation to subsequent Western thought.

REQUIREMENTS IN THE MAJOR SUBJECT: Greek 1, 101, 201, and 301. The fields of specialization in Greek 301 will be decided by each student in consultation with the Department.

ALLIED SUBJECTS: Ancient History, Classical Archaeology, any language, Philosophy.

1. *Elementary Greek*: Miss Lang.

Elements of grammar with prose composition and selected reading from ancient authors and the *New Testament* in the first semester; in the second semester, the *Apology* of Plato.

101. *Herodotus and Tragedy*: Mr. Lattimore.

Private reading and prose composition are required.

102C. *Homer*: Mr. Lattimore.

201. *Thucydides and Tragedy*: Mr. Lattimore.

Private reading and prose composition are required.

301. *Hesiod, Lyric, and Aristophanes*: Miss Lang, Mr. Lattimore.

The student selects her work from this field in consultation with the Department.

203.* *Greek Literature in Translation*: Miss Lang, Mr. Lattimore.

The epic, lyric and dramatic poetry as well as the early prose works are examined and interpreted as expressions of Greek culture.

FINAL EXAMINATION: The final examination for students majoring in Greek consists of:

1. Sight Translation of Greek to English.

2. Two papers from the following fields: Homer, Attic Tragedy, Lyric Poetry and Aristophanes, Fifth-century Historians, Fourth-century Attic Prose. A student may substitute for one of these, a paper in one of the Allied Subjects.

HONORS WORK: Honors may be taken either in conjunction with advanced courses or after their completion.

History

PROFESSORS:

CAROLINE ROBBINS, PH.D.,¹

Chairman

FELIX GILBERT, PH.D.

ASSOCIATE PROFESSOR:

ARTHUR P. DUDDEN, PH.D.

ASSISTANT PROFESSORS:

DAVID J. HERLIHY, PH.D.

RAYMOND F. BETTS, *D. d'Univ.*

VISITING LECTURER:

FREDERICK B. TOLLES, PH.D.

PROFESSOR OF LATIN:

THOMAS ROBERT SHANNON BROUGHTON,
PH.D.

The chief aim of the History major is to give the student a sense of historical perspective and an insight into historical

1. On leave of absence for semester II, 1957-1958.

method. The development of ideas and institutions—political, social and economic—is stressed rather than the accumulation of data about particular events. At the same time a more intensive study of certain topics and periods is required of every student in order to train her in the use of documents and to enable her to evaluate different kinds of source material. Extensive reading is assigned in all courses to familiarize History majors with the best historical writing and, in every year course except History 101, critical or narrative essays are required.

REQUIREMENTS IN THE MAJOR SUBJECT: In general, students are expected to offer four units of History and two units of allied work, the selection of courses depending upon the student's desire to specialize in Modern, Mediaeval or Ancient History. Students concentrating in Modern History must take some work in Ancient or Mediaeval History. History 301 is required of all students offering Modern History for the Final Examination; History 305 for all students offering Mediaeval History.

ALLIED WORK: Courses in Economics and Political Science are recommended for History majors. Advanced courses in Philosophy, History of Art, Literature, Anthropology and Sociology are accepted as allied work if the subject matter is related to that of the History courses elected. For students specializing in Mediaeval and Ancient History, Greek, Latin, and Archaeology are especially recommended.

101. *Mediaeval and Modern Europe:* Members of the Department.

The purpose of this course is to give a broad view of the development of European civilization from the fall of Rome to the present day as a general background for courses in other departments as well as for more advanced history courses. One of the divisions is organized for the benefit of students who have had a survey course in the last two years of their school preparation and devotes most of the year to a more intensive study of a period not covered by the other courses offered by the Department.

201. *History of England to 1783:* Miss Robbins.

This course is open to all students. The treatment is topical, although a general chronology is maintained. Prehistoric Roman,

Saxon, Norman and later English society, constitutional, economic and intellectual development are among the subjects studied. Ireland, Scotland and Wales receive special attention. Given in alternate years.

202. *History of the United States*: Mr. Dudden.

A survey of American civilization to the present day. The first semester covers colonial and national developments to the end of the Civil War period. The second semester accounts for the emergence of modern America.

[203. *Mediaeval Civilization*: Mr. Herlihy.]

Western European development from the fall of Rome to about 1350. Economic, institutional and intellectual developments in the major kingdoms of the West and the history of the Latin Church will be included. Given in alternate years.

204a. *Revolutionary Europe 1787-1850*: Mr. Betts.

About one half of the semester is devoted to the French Revolution; the second half to the spread of revolutionary ideas and the idea of nationalism throughout Western Europe during the Napoleonic period and the first half of the Nineteenth Century culminating in the Revolution of 1848.

204b. *Europe and Its Expansion in the Nineteenth Century*: Mr. Betts.

European, continental, and overseas development from the period of the Revolutions of 1848 until the end of the Boer War in 1902. Stress will be placed on industrial developments, imperialism; on European activities in Africa, Asia, and the Near East.

205.* *Ancient History*: Mr. Broughton.

The first semester is devoted to study of the history of the ancient Near East and of Greece to the rise of Macedon; the second to the history of Rome and the hellenistic world to the reign of Constantine I. The course demands essays, and reading of typical sources for each period.

[206. *History of Russia*: Mr. Gilbert, Mr. Herlihy.]

A survey of Russian history placing special emphasis on the development since Peter the Great. The first semester deals with the Russia of Tsarism ending with the Revolution of 1917; the second semester with the internal and foreign policy of Soviet Russia. Given in alternate years.

[207a. *Rise of the Americas.*]

This course deals with the rise and development of the Spanish, Dutch, British and French empires overseas and the repercussions on European economy and politics of the new balance of power in America. Given in alternate years.

208. *Social and Economic History of Mediaeval and Early Modern Europe*: Mr. Herlihy.

Topics in the Social and Economic History of Mediaeval and Early Modern Europe. Topics considered include European economic geography, agricultural settlements, demographic trends, rise of the manor and seigneurie, rise and development of towns, agricultural and industrial technology, commerce and commercial institutions, social structure and economic theories. Particular attention is paid to the period between the seigneurial-urban revolution of the eleventh century and the industrial revolution of the eighteenth.

301. *History of Europe since 1890*: Mr. Gilbert, Mr. Betts.

The first semester includes the settlement after the First World War; the second, the events from 1919 to the present. The course deals not only with diplomatic events but special emphasis is placed on the internal developments in the European states and on their social structure.

303a. *The Expansion of the American Nation*: Mr. Dudden.

The period stressed ranges from the last quarter of the nineteenth century to the end of the first World War. Inquiry is directed to the fundamental problems posed for the United States by industrialism, large-scale immigration, populism, progressivism, and imperialism. Student participation of an advanced nature will be encouraged.

303b. *The American People in the Recent Past*: Mr. Dudden.

The United States in our time, emphasizing historic political, social, economic, and intellectual developments since the first World War. Student participation of an advanced nature will be encouraged.

[304a. *English History in the Nineteenth Century*: Miss Robbins.]

Special attention is given to the structure of English government and its adaptation to modern economic and social conditions as well as to the growth of the second empire and its institutions. Given in alternate years.

305. *Renaissance and Reformation*: Mr. Gilbert.

The course is concerned with European History from the Fourteenth to the Sixteenth Centuries. The first term deals with the Renaissance, the second with the Reformation. Emphasis will be placed not only on the political and social developments, but also on the intellectual history of the period. Given in alternate years.

306a. *The Enlightenment*: Miss Robbins.

The rise of absolute government in Europe between 1620 and 1789 and its political concomitants occupies the first half of the semester. In the second half, the intellectual climate of the period is studied.

306b. *Great Historians*: Members of the Department.

FINAL EXAMINATION: The final examination for students in History consists of three papers, two of which must deal with general European History. Unless special permission is given by the Department these two fields should form a sequence in Mediæval or in Modern History. The fields offered are as follows:

1. Ancient History to A.D. 378 (Special field)
2. History of Europe 378 to 1618 (Political and Diplomatic)
3. History of Europe 378 to 1618 (Intellectual and Social)
4. History of Europe 1618 to 1950 (Political and Diplomatic)
5. History of Europe 1618 to 1950 (Intellectual and Social)
6. History of England (Special field)
7. History of the United States (Special field)

The papers in Ancient, English and American History will be based on concentrated study of a special field selected by the Department to meet the needs of the senior class. With the consent of the departments concerned a student may write her third paper in a field of allied work.

HONORS WORK: Students admitted to this work meet the instructor regularly for the discussion of reading in a selected period. An essay based on source material must be presented before May 1st. The award of the degree with Honors in History will depend on the character of this honors paper and on the candidate's performance in the final examination.

History of Art

PROFESSORS:	JOSEPH CURTIS SLOANE, M.F.A., PH.D., <i>Chairman</i>
	ALEXANDER COBURN SOPER, M.F.A., PH.D. ¹
	RICHARD BERNHEIMER, PH.D.
	HELEN JEANETTE DOW, PH.D.
LECTURER:	
CURATOR OF SLIDES	
AND PHOTOGRAPHS:	HENRIETTA HUFF LANDES, A.B.
ARTIST IN RESIDENCE:	FRITZ JANSCHKA
ASSISTANT:	MARGARET G. HOWLAND, A.B.

The major in History of Art is designed to furnish a basic understanding of the fine arts as they have evolved in Western and Far Eastern cultures. After a thorough grounding in principles, criteria of quality, and general historical developments, the student advances to a more detailed study of particular fields in courses on the second-year and advanced levels. Considerable latitude of choice is allowed, but the major program must constitute a coherent whole.

Under the guidance of the Artist in Residence, studio work in creative art is offered to all interested students. There is no tuition fee and academic credit is not granted for this work.

REQUIREMENTS IN THE MAJOR SUBJECT: A minimum of four full courses (or the equivalent) is required for a major: the first-year course; a second-year course; and two other courses one of which shall be considered an advanced course.

ALLIED SUBJECTS: Classical Archaeology, (It is expected that students majoring in Art History will take Archaeology 101 as an allied subject, preferably as early in their college careers as possible), English, Modern Languages, History, Philosophy, Music, Anthropology and History of Religion.

101. *An Introduction to the History of Art*: Mr. Sloane, Miss Dow.

A philosophical, technical, and historical introduction to the field of fine arts. Laboratory work in basic principles of design, color, and technique will be required in conjunction with the lectures. Three lectures, one hour of conference, and two hours of laboratory each week.

1. On partial leave of absence for semester II, 1957-1958.

201.* *Italian Art*: Mr. Sloane, Miss Dow.

The arts of Italy from the thirteenth to the end of the fifteenth century are discussed in the first semester. The second semester covers the later phases of Italian art.

[202. *Mediaeval Art*: Mr. Soper, Mr. Bernheimer.]

The first semester covers the early mediaeval period, the second the Romanesque and Gothic.

203a. *Northern Renaissance Art*: Mr. Bernheimer.

From its beginnings through Breughel.

[204b. *Northern Baroque Art*: Mr. Bernheimer.]

From the late sixteenth century to the classical revival in the eighteenth century.

301.* *The Art of Japan*: Mr. Soper.

Primarily painting, sculpture, and architecture, from the beginning of civilization to the nineteenth century.

302. *Modern Art*: Mr. Sloane, Mr. Soper.

The first semester covers architecture and sculpture, the second, painting. Both carry from the neoclassic period to the present day.

303b. *American Art*: Mr. Sloane.

The arts in America from colonial times to the present with emphasis on painting.

FINAL EXAMINATION: The final examination for students majoring in the History of Art consists of three parts of three hours each:

1. An examination conducted with slides and/or photographs testing the student's ability to identify important monuments and to analyze stylistic and iconographic elements within the field of major concentration.
2. A written examination on fundamental problems of style, evolution and cultural relationships in art.
3. A detailed examination on *one* of the following fields chosen from the broader field of major concentration:
Early Mediaeval Art, Romanesque and Gothic Art, Art of the Northern Renaissance, Italian Art after 1300, Art of the Seventeenth and Eighteenth Centuries, Modern Art (after 1800), Art of the Far East (or an acceptable subdivision).

HONORS WORK: Honors work is offered to students recommended by the Department.

History of Religion

PROFESSOR OF LATIN:

AGNES KIRSOPP MICHELS, PH.D.

PROFESSOR OF PHILOSOPHY
AND RELIGION:

GEDDES MACGREGOR, B.D., LL.B.,
D.PHIL., D.ès L., F.R.S.L.

Courses in the History of Religion are designed to supplement the work offered in other departments, for the benefit of students interested in this field. While no major work is offered in the History of Religion, certain departments accept these courses as allied work. Philosophy of Religion may be taken in the Department of Philosophy as one of the fields for the Final Examination in the Major Subject.

103. *Literary History of the Bible*: Mrs. Michels.

The history of the Bible, with special emphasis on analysis of text and on literary forms.

201a. *Comparative Religion*: Mr. MacGregor.

An historical study in outline of the major religions of the world, comparatively considered. These include Hinduism, Buddhism, Judaism and Islam.

201b. *History of Christian Thought*: Mr. MacGregor.

An historical study of the most important Christian ideas from early times to the present. External events are considered only to the extent that they help in understanding the development of Christian thought and belief.

203a. *Philosophy of Religion*: Mr. MacGregor.

This course is also listed as Philosophy 203a.

203b. *Mediaeval Philosophy*: Mr. MacGregor.

This course is also listed as Philosophy 203b.

Italian

PROFESSOR: ANGELINE HELEN LOGRASSO, PH.D., *Chairman*
 Appointment to be announced

The aims of the major are to acquire a knowledge of the Italian language and literature and to acquire an understanding of Italian culture and its contribution to Western Civilization. All courses with the exception of the course in Dante are conducted in Italian. Majors in Italian are urged to spend the Junior Year in Italy or to study in approved summer schools in Italy or in the United States.

REQUIREMENTS IN THE MAJOR SUBJECT: Italian 101, 201, 202, and two other advanced courses.

ALLIED SUBJECTS: Any other language or literature, History, History of Art, Philosophy, Music, Political Science; with departmental approval, any other field allied to the student's special interests.

101. *Italian Language*: Miss Lograsso.

A practical knowledge of the language is acquired through speaking, hearing, writing, and reading, going from concrete situations to the expression of abstract ideas and with a gradual introduction to the reading of contemporary texts.

102C. * *Dante in English Translation*: Miss Lograsso.

The New Life and Divine Comedy.

[103C. * *Literature of the Italian Renaissance in English Translation*: Miss Lograsso.]

From Petrarch to Tasso; pastoral literature; literary criticism and aesthetic theories of the Renaissance with special reference to their influence on other literatures.

201. *Classics in Italian Literature*: Miss Lograsso.

Reading and explanation of texts, with a study of literary history; conducted mostly in Italian.

[202. *Dante*: Miss Lograsso.]

The *Vita Nuova* and *Divina Commedia*, with some attention to the minor works.

[203. *Intermediate Course in the Italian Language*: Miss Lograsso.]

Topics are assigned for composition and discussion in Italian.

302C. *Advanced Course in the Italian Language*: Miss Lograsso.

Advanced work in composition.

[303. *Italian Literature of the Rinascimento*: Miss Lograsso.]

304. *Italian Literature of the Romantic Period*: Miss Lograsso.

JUNIOR YEAR ABROAD

Students approved by the Department and the Dean of the College may be recommended for the Junior year in Perugia and Florence under the auspices of the Smith College Group.

FINAL EXAMINATION: The final examination consists of three parts:

1. The Italian Language: ability to speak and understand the spoken idiom; ability to write it.
2. Italian Literature and Literary History.
3. The study of a single genre or topic throughout Italian literature, or a paper on an allied subject.

For the second part, the emphasis may be placed on the Mediaeval, Renaissance, Romantic, or Modern period.

HONORS WORK: After the completion of the second-year course a student may be recommended for Honors in Italian. The student works in a special field adapted to her own interest under the direction of the Department.

Latin

PROFESSORS: THOMAS ROBERT SHANNON BROUGHTON, PH.D.,
Chairman

BERTHE MARIE MARTI, PH.D.

AGNES KIRSOPP MICHELS, PH.D.

VISITING PROFESSOR: LILY ROSS TAYLOR, PH.D.

ASSISTANT DEAN OF

THE COLLEGE: KATHERINE A. GEFFCKEN, M.A.

The major in Latin is planned to give the students familiarity, through careful reading in the original, with the most

important works of Latin literature and an understanding of Roman civilization as revealed in literature. A further aim of the major is to give the students some sense of the importance of Roman literature in our tradition and of the contribution of Roman civilization to the modern world. Study of language and style is an essential part of the work, but only one course is entirely devoted to such study. Students are given an opportunity to choose whether they wish to work intensively on literary criticism or on problems dealing with Roman civilization.

REQUIREMENTS IN THE MAJOR SUBJECT: Latin 101, 201 and either 301 or 302. Honors students are required to take Latin 203. Students who plan to teach Latin are advised to take this course.

ALLIED SUBJECTS: History, Classical Archaeology, Greek, History of Art, History of Religion, Philosophy, any modern literature.

1. *Elementary Latin*: Mrs. Michels.

Students who have satisfactorily completed this course may take Latin 101.

101. *Latin Literature*: Mr. Broughton, Miss Marti, Miss Geffcken.

Prerequisite: three units of entrance Latin or Latin 1. Students with four units of entrance Latin will be placed in a separate section. Selections will be read from the poems of Catullus, a play of Plautus, the *Eclogues* of Vergil and from Lucretius, in the first semester; and from Livy's *History* and the *Odes* of Horace, in the second.

201a. *Augustan Literature*: Mr. Broughton.

Reading will include selections from the *Satires* and *Epistles* of Horace and from the Elegiac poets.

201b. *Latin Literature of the Silver Age*: Miss Marti.

Reading from the works of the chief authors with special attention to the development of literary types during the period.

[202c.* *Mediaeval Latin Literature*: Miss Marti.]

Prerequisite: Four units of entrance Latin or Latin 101.

The reading includes selections from the most important mediaeval writers from St. Augustine to Thomas Aquinas.

203. *Latin Style*: Miss Marti, Mrs. Michels.

A study of the style and technique of the main Roman authors and of the chief metres of Roman poetry with practice in the writing of Latin prose and verse. This course may be taken as one half-unit throughout the year by students wishing to omit the material on versification.

[301a. *Vergil's Aeneid*: Mrs. Michels.]

[301b. *Tacitus and Livy*: Mr. Broughton.]

302a. *Lucretius and Vergil's Georgics*: Mrs. Michels.

302b. *Cicero and Caesar*: Mr. Broughton.

FINAL EXAMINATION: The final examination for students majoring in Latin consists of three three-hour papers in the following fields:

1. Latin Sight Translation.
2. An examination on one of the following subjects:
 - a. Latin Literature of the Republic
 - b. Latin Literature of the Empire
 - c. Latin Literature of the Ciceronian and Augustan Age
 - d. Roman History from the Sources (100 B.C. to 70 A.D.).
3. An examination on one of the following subjects:
 - a. An allied subject (Students are advised if possible to take the third paper in Greek)
 - b. A second subject from Group 2 (Choice must avoid duplication of material)
 - c. The development in Latin literature of an important literary type
 - d. An important period or type in Mediaeval Latin Literature
 - e. Latin Prose Style

HONORS WORK: Honors work either in classical or in mediaeval Latin is offered to qualified seniors. The subject will be determined by the interests of the student. The work is carried out under the direction of one member of the Department and the results are presented in a paper.

Mathematics

PROFESSORS:	JOHN CORNING OXTOBY, M.A., <i>Chairman</i>
	MARGUERITE LEHR, PH.D.
ASSOCIATE PROFESSOR:	HAROLD W. KUHN, PH.D.
READERS:	MIRIAM R. GORN, A.B. DOROTHEA J. RHEA, M.A.

The major is designed to provide a balanced introduction to the subject, emphasizing its nature both as a deductive and as an applied science, at the same time providing the technical foundation for more advanced study. The courses in calculus are basic for all applications of mathematical analysis and for more advanced work in function theory. The courses in algebra and geometry introduce the student to some of the unifying ideas and postulational methods that are characteristic of much of modern mathematics.

REQUIREMENTS IN THE MAJOR SUBJECT: Mathematics 101, 201, 202C, 301, 303b, and at least one other advanced half course.

ALLIED SUBJECTS: Chemistry, Economics, Philosophy, Physics, and Psychology.

101. *Analytic Geometry and Calculus*: Miss Lehr, Mr. Kuhn.

Plane analytic geometry, including the necessary elements of trigonometry; Differential Calculus of both algebraic and transcendental functions; an introduction to integration. The interplay between mathematical ideas and applications is stressed.

201. *Second Year Calculus*: Mr. Kuhn.

The definite and indefinite integral, infinite series, partial derivatives, multiple integrals, differential equations, with applications to geometry, physics, and chemistry.

202C. *Solid Analytic Geometry and Algebra*: Mr. Oxtoby.

Determinants, vectors, matrices, and selected topics from the Theory of Equations; linear algebra motivated by and applied to space geometry; classification and transformation of planes and quadric surfaces.

301. *Advanced Calculus*: Mr. Oxtoby.

The classical theory of real functions, based on Cantor's construction of the real number system; the Riemann integral, functions defined by power series, Fourier series, functions of several variables. Prerequisite: Mathematics 201.

302b. *Introduction to Geometric Theories*: Miss Lehr.

Analytic generalizations and group-theoretic classification, as related to postulational methods and the problem of introducing coordinates. Development motivated from the basic projective, Euclidean, and non-Euclidean space theories. Prerequisite: Mathematics 202c.

303a. *Introduction to Abstract Algebra*: Miss Lehr.

Permutations, linear transformations, abstract groups, rings, and fields; postulational characterization of number systems. Prerequisite: Mathematics 202c.

[304a. *Theory of Probability and Statistics*: Mr. Kuhn.]

Mathematical formulation of problems of statistical inference, exhibiting the inherent probability aspect. Probability distributions for discrete and continuous ranges; sampling theory; central limit theorems; tests of hypotheses. Prerequisite: Mathematics 201.

[310. *Theory of Functions of a Complex Variable*: Mr. Oxtoby.]

Special functions, conformal mapping, the general theory according to Cauchy, singular points, Laurent series, series of partial fractions, infinite products, elliptic functions. Prerequisite: Mathematics 301.

[311b. *Differential Equations*: Mr. Oxtoby.]

General methods, existence theorems, linear equations and Wronskians, oscillation and separation theorems, partial differential equations and boundary-value problems. Prerequisite: Mathematics 301 (may be taken concurrently).

204.* *Introduction to Statistical Inference*: Miss Lehr.

A course designed to develop the mathematical vocabulary necessary for study of quantitative data. Descriptive methods for frequency distributions and time series; correlation. Elements of probability, sampling, and tests of significance.

FINAL EXAMINATION: The final examination consists of three parts: (a) an examination in analysis, (b) an examination in algebra and geometry, and (c) an examination in some particular branch of advanced analysis or geometry, or in an allied field.

HONORS WORK: Qualified students are admitted to Honors work on recommendation of the Department.

Music

ASSOCIATE PROFESSOR:	ROBERT L. GOODALE, A.B., B.MUS., A.A.G.O., <i>Chairman</i>
ASSISTANT PROFESSOR:	SYLVIA W. KENNEY, PH.D.
LECTURER AND DIRECTOR OF ENSEMBLE GROUPS:	AGI JAMBOR
DIRECTOR OF ORCHESTRA:	WILLIAM H. REESE, PH.D.
ASSISTANT:	ELIZABETH E. BOOTH, M.A.

The purpose of the Music major is to enable the student to appreciate the significance of music from an historical and sociological as well as from an aesthetic point of view and to develop a technique of intelligent listening, a faculty of critical judgment, and the ability to use the materials of music as a means of expression for creative talent.

Students in the courses in History and Appreciation of Music must devote two hours or more a week to listening to gramophone records assigned by the Department.

The College Chorus of eighty members, which also takes part in the College Chapel Services, and the Orchestra and Ensemble groups are organized under the direction of the Department of Music. On several occasions during the year the chorus of Bryn Mawr College and the choruses of various men's colleges, as well as the instrumental groups of Bryn Mawr College and Haverford College collaborate in performances of special works.

Lessons in Pianoforte and Organ may be taken at the student's own expense, with no academic credit. Membership is recommended in the Chorus or Orchestra, and/or Ensemble, also with no academic credit.

REQUIREMENTS IN THE MAJOR SUBJECT: Music 101, 102, 201, and at least one and one-half units of additional work, the selection of courses depending upon the student's desire to specialize in the History and Literature of Music or the technique of Composition. Music 102 should be taken before or concurrently with Music 201. A student intending to major in Music must have sufficient knowledge of Pianoforte or Organ playing to enable her to play music of the technical difficulty of a Bach Figured Choral.

ALLIED SUBJECTS: History, History of Art, Modern Languages, English, Greek, Latin, Philosophy, History of Religion, Physics (Sound).

101. *An Introduction to the History and Appreciation of Music*: Miss Kenney.

A general survey of music in western civilization, with emphasis on the evolution of polyphonic music from the Tenth to the Twentieth Centuries.

102. *Music Materials*: Mr. Goodale.

A course in the elements of theory. The study of Harmony and Counterpoint, simple formal analysis, and an introduction to orchestration.

201. *The Romantic Period*: Miss Kenney.

Special studies in the music of the Nineteenth Century. Musical Romanticism, the expansion of orchestral and pianoforte technique, the growth of Nationalism and the Impressionist School. Prerequisite: Music 101 or its equivalent.

202. *Advanced Theory and Analysis*: Mr. Goodale.

A continuation of Music 102, with emphasis on analysis (harmonic, contrapuntal, and formal) of larger forms. Prerequisite: Music 102 or its equivalent.

203a. *Bach*: Mme. Jambor.

Prerequisites: Music 101 and 102 or their equivalents.

203b. *The Classical Period*: Mme. Jambor.

Prerequisites: Music 101 and 102 or their equivalents.

[301a. *Opera and Music Drama*: Miss Kenney.]

The rise of opera in the Seventeenth Century. Studies in opera technique and theory from the time of Monteverdi through Wagner. Prerequisites: Music 101 and 102 or their equivalents.

[301b. *Music of the Twentieth Century*: Mr. Goodale.]

Prerequisites: Music 101, 102, and 202 or their equivalents.

302a. *Mediaeval Music*: Miss Kenney.

The rise of liturgical music in the early Christian Church. The development of polyphony in the Tenth Century, and the evolution of sacred and secular music up to 1450. Prerequisites: Music 101 and 102 or their equivalents. Given in alternate years with Music 301a.

302b. *Renaissance and Baroque Music*: Miss Kenney.

The great periods of vocal counterpoint during the Fifteenth and Sixteenth Centuries. The creation of new forms in the Seventeenth Century and the development of dramatic and instrumental music up to the time of Bach. Prerequisites: Music 101 and 102 or their equivalents. Given in alternate years with Music 301b.

303a. *Orchestration*: Mr. Goodale.

Prerequisites: Music 101, 102, and 202 or their equivalents. Music 202 may be taken concurrently with this course.

HONORS WORK: Honors work is offered for students recommended by the Department.

FINAL EXAMINATION: The final examination consists of three parts with three-hour papers in each:

1. The History of Music.
2. The Theory of Music.
3. Special field, which may be taken in an allied subject.

Philosophy

PROFESSORS:

MILTON CHARLES NAHM, B.LITT.,
PH.D., *Chairman*

JOSÉ MARIA FERRATER MORA,¹
Licenciado en Filosofia

GEDDES MACGREGOR, B.D., LL.B.,
D.PHIL., D.ès L., F.R.S.L.

ISABEL SCRIBNER STEARNS, PH.D.

VISITING PROFESSOR:

PAUL SCHRECKER, PH.D., LL.D.

ASSOCIATE PROFESSOR:

HUGUES LEBLANC, PH.D.

Appointment to be announced.

1. On partial leave of absence for semester II, 1957-1958.

The major work is planned to acquaint the student with the historical and systematic interrelations of the significant philosophic concepts in western thought, as well as to provide training in the techniques proper to the subject.

The History of Philosophic Thought provides the major students with a common background, training, and language. Further study offers not only historical information but insight into methodology and systematization, with training in the techniques of logic and theory of value. Metaphysics, aesthetics, and the other advanced studies, besides their intrinsic importance, show the relations of philosophy to art, science, history, mathematics, and religion.

The Department aims to provide training sufficiently broad in scope and technical in procedure to equip the student for analytical, critical, and productive speculation.

REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in Philosophy are required to take the first-year course, the second year half-courses in German Idealism, Logic, Ethics, and either Recent Metaphysics or Mediaeval Philosophy, and one advanced course. With permission, students may take second-year courses for third-year credit.

ALLIED SUBJECTS: Biology, Chemistry, Economics, English, Greek, History, Latin, Mathematics, Physics, Political Science, Psychology, and certain courses in History of Religion and Sociology and Anthropology.

101. *History of Philosophic Thought*: Mr. Nahm, Mr. Ferrater Mora, Mr. MacGregor, Miss Stearns, Mr. Leblanc.

Some writings of the major philosophers, classic and modern, are studied and discussed.

- 201a. *German Idealism*: Mr. Ferrater Mora.

The philosophy of Kant.

- 201b. *Recent Metaphysics*: Miss Stearns.

The metaphysics of Bradley, Bergson, Whitehead, and related thinkers.

- 202a. *Logic*: Mr. Leblanc.

An introduction to modern logic.

- 202b. *Ethics*: Mr. Nahm.

The theory and problems of various types of ethics, hedonist, utilitarian, rational and idealist, with particular emphasis upon

the analysis of action and judgment, rightness and goodness, and obligation.

203a. *Philosophy of Religion*: Mr. MacGregor.

The philosophical problems arising out of religious ideas; the nature and interpretation of religion.

203b. *Mediaeval Philosophy*: Mr. MacGregor.

The history of the development of mediaeval philosophy, with more detailed study and discussion of the Thomist solution of the mediaeval problem and the basis of a modern interpretation of Thomism.

301a. *Aesthetics*: Mr. Nahm.

Types of aesthetic theory and problems concerning art, fine art, productivity, aesthetic judgment and aesthetic experience.

301b. *Theory of Knowledge*: Mr. Leblanc.

An analysis of the scope, structure, and methods of science in the light of recent philosophy.

302a. *Plato*: Miss Stearns.

A detailed study of some of the later dialogues.

[302b. *Philosophy of History*: Mr. Ferrater Mora.]

The philosophical interpretation of history, its meanings, and laws.

304b. *Aristotle*: Mr. Ferrater Mora.

A study of Aristotle's system, with emphasis upon such fundamental problems as language, substance, change, being, and the Prime Mover.

PLAN FOR THE FINAL EXAMINATION: The final examination consists of three papers in the following fields, offering a wide choice of questions: Ancient Philosophy, Modern Philosophy, Systematic Philosophy or Philosophy of Religion. For the first two papers, a subject such as "causation," "mind," "freedom," or "time" is studied in the writings of important philosophers. For the third paper, a field in Philosophy of Religion or the philosophy of an important modern thinker is intensively examined.

PLAN FOR HONORS WORK: Honors work consists of independent reading and conferences with the instructor, directed to the preparation of a paper on a subject dealing with the technical problems of philosophy or emphasizing the connection of philosophy with general literature, history, politics, and science, or with some special field in which the student is working.

Physics

PROFESSOR:	WALTER C. MICHELS, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	ROSALIE C. HOYT, PH.D. JOHN R. PRUETT, PH.D.
TEACHING ASSISTANTS:	LAWRENCE R. HOLLAND, M.A. ANN MERRIAM, A.B.

The plan for the physics major is based on the belief that an acquaintance with the methods used by professional workers in some particular field of intellectual activity is a necessary part of the general education of any student, whether or not that student intends to follow a professional career in the field. The courses offered emphasize the techniques which have led to our present state of understanding of the material universe rather than facts about the universe; they are designed to relate the individual parts of physics to the whole rather than to treat them as separate disciplines. In her progress from a general survey of the subject in her first-year course to the preparation for the final examination in the senior year, the student applies her growing grasp of experimental and logical techniques to increasingly independent studies of physical phenomena.

REQUIREMENTS IN THE MAJOR SUBJECT: Physics 101, 201a and 202b, and at least one and one-half units of advanced work, to be chosen from 301-305 inclusive; Chemistry 101; Mathematics 101 and 201. A third unit of Mathematics is strongly recommended.

ALLIED SUBJECTS: Biology, Chemistry, Geology, Mathematics, Philosophy, Psychology.

101. *Introduction to Modern Physics*: Mr. Michels, Miss Hoyt.

A study of the interpretation of the principal phenomena of classical and modern physics in the light of the developments of the past sixty years. Three lectures and three hours of laboratory a week.

201a. *Electricity and Magnetism*: Miss Hoyt.

Behavior of electric currents, elementary direct current and alternating current circuit theory, magnetic effects of currents, electrostatic phenomena. Three lectures and four hours of laboratory per week. Prerequisites: Physics 101, Mathematics 201 (may be taken concurrently).

202b. *Optics*: Mr. Michels.

Geometrical optics, interference and diffraction phenomena, polarization. Three lectures and four hours of laboratory per week. Prerequisites: Physics 201a, Mathematics 201 (may be taken concurrently).

301a. *Classical and Statistical Mechanics*: Mr. Michels.

Newtonian mechanics of particles and of rigid bodies, special relativity, applications of mechanics to ensembles with applications to ideal and real gases. Three lectures and four hours laboratory per week. Prerequisites: Physics 201a, 202b, Mathematics 201.

302b. *Atomic and Nuclear Structure*: Mr. Michels.

Experimental evidence for the properties of atoms and nuclei, development of quantum theory, Bohr theory, introduction to wave mechanics and quantum statistics. Three lectures and four hours laboratory per week. Prerequisites: Physics 301a, Mathematics 201.

304. *Introduction to Theoretical Physics*: Mr. Pruett.

The foundations of classical mechanics and electromagnetic theory, including: generalized mechanics, vibrating systems, the wave equation, Laplace's Equation, Maxwell's equations, electromagnetic waves. Vector analysis and mathematical methods are developed as needed. Four lectures a week. Prerequisites: Physics 201a, 201b, 301a and 302b (may be taken concurrently), Mathematics 201. Mathematics 301 or Chemistry 203 may be substituted for Physics 301a and 302b.

305c. *Physical Measurements*: Miss Hoyt, Mr. Pruett.

Precision measurements of electromagnetic, optical, and atomic phenomena. Four hours of laboratory a week. Prerequisites: Physics 301a and 302b (may be taken concurrently).

[351.* *Application of Physics to Biology and Chemistry*: Miss Hoyt.]

The emphasis of this course is divided between the experimental techniques and the theoretical methods of physics. Examples of applications of these methods and techniques will be chosen to meet the major interests of the students. Three lectures and four hours of laboratory a week. Prerequisites: Physics 101,

Mathematics 101, and second-year work in either Chemistry or Biology.

FINAL EXAMINATION: The final examination for students majoring in Physics is in three parts:

1. Foundations of Physical Theory (required of all students).
2. Descriptive Physics. A student may substitute an approved examination in an allied field for this examination.
3. An examination in a special field of physics. The possible subjects include:

Acoustics

Classical Mechanics and Special Relativity

Electricity and Magnetism

Mechanics of the Atom

Optics

Thermodynamics and Statistical Mechanics

HONORS WORK: Honors work may be taken by Seniors recommended by the Department. It consists of reading and experimental work on some problem of physics.

Political Science

The Caroline McCormick Slade Department of Political Science

PROFESSOR:

ROGER H. WELLS, PH.D.,

Chairman

ASSOCIATE PROFESSORS:

PETER BACHRACH, PH.D.¹

GERTRUDE C. K. LEIGHTON, A.B., LL.B.¹

ASSISTANT PROFESSOR:

ROBERT A. RUPEN, PH.D.

INSTRUCTOR:

LOUISE HARNED, PH.D.

The major in Political Science is concerned with study of ideas about the purposes of government and with analysis of the structures and processes of modern political communities.

REQUIREMENTS IN THE MAJOR SUBJECT: Political Science 101a and 102b, one unit of second-year work and one unit of advanced work, and Economics 101. The second-year courses in Political Science are open to students who are not majors in the Department if they have completed one unit in allied subjects. With the permission of the Department, various courses at Haverford College may be taken for major or allied credit.

1. On sabbatical leave for the year 1957-1958.

ALLIED SUBJECTS: Economics, Education, History, Philosophy, Psychology, Sociology and Anthropology. With the permission of the Department, certain courses offered by the Modern Language Departments may be accepted as allied subjects.

101a. *Political Process in the United States*: Mr. Rupen, Miss Harned.

An introduction to the study of American political behavior. Major attention is given to the political, economic and social beliefs of democracy and to the governmental institutions and processes through which they are expressed. Decision-making and the sharing of power are examined in relation to the individual and to political parties, pressure groups and public opinion.

102b. *Political Process in the World Community*: Mr. Rupen, Miss Harned.

An introduction to the study of political behavior at the international level. The course deals with the basic institutions, processes, values and resources common to peoples and nation-states.

201a. *Western Political Thought: 1600 to the Present*: Miss Harned.

A study of the main ideas of modern political thought in the West, based on an analysis of the writings of the leading theorists.

[202a. *International Law*: Miss Leighton.]

[203a. *Political Parties*: Mr. Wells.]

204b. *American Constitutional Law*: Miss Harned.

A detailed analysis of selected Supreme Court decisions on four or five leading topics.

[205b. *International Organization*: Miss Leighton.]

[206a. *American State and Local Government*: Mr. Wells.]

207b. *The Soviet Union in Asia*: Mr. Rupen.

A study of Russia's expansion into Asia and of Russian relations with other Asian countries. The political, economic and strategic significance of Siberia and Soviet Central Asia occupies an important place in the content of the course.

[208b. *Communism and Nationalism in Asia*: Mr. Rupen.]

[209b. *Public Opinion and Propaganda*: Mr. Bachrach.]

210. *The Soviet System*: Mr. Hunter, Haverford College.

See Interdepartmental Course 210, page 104.

[211a. *Comparative Government: Britain and the Commonwealth*: Miss Leighton.]

212a. *The Soviet Union and the European Satellites*: Mr. Rupen.

An analysis of the theoretical and practical strengths and weaknesses of the Communist system in Russia and the European satellites, leading to a systematic evaluation of the political, economic and social characteristics of contemporary Communism.

[301. *The Theory and Practice of Democracy*.]

See Interdepartmental Course 301, page 102.

[302b. *Western Political Thought from Plato to 1600*: Mr. Wells.]

303b. *Comparative Government: France and Germany*: Mr. Wells.

A study of political, economic and social developments in France and Germany since World War II. Stress is laid on questions of foreign policy relating to the East-West conflict, the division of Germany, and the movement toward European integration.

304a. *Public Administration*: Mr. Wells.

The process of public administration at local, state, national and international levels. Among the subjects covered are: administrative organization; public relations of administrative agencies; intergovernmental relations; government personnel problems; and financial administration. Particular emphasis is placed on administrative developments in the United Nations.

[305b. *American Political Thought*: Mr. Bachrach.]

FINAL EXAMINATION: The final examination consists of three three-hour papers, the first of which is the general examination in Political Science and must be taken by all Seniors majoring in the Department. The other two represent more limited fields and are to be selected from the following: American Government, Comparative Government, Political Theory, and International Law and Organization. If desired, one of the papers for the final examination may deal with an allied subject. Seniors are expected to attend the weekly supervised reading conferences.

HONORS WORK: One unit of Honors work in the Senior year may be taken by Political Science majors who are recommended by the Department. This involves a weekly conference, independent reading and research, and a written report or reports within the field selected.

Psychology

PROFESSOR:	RACHEL DUNAWAY COX, PH.D.
ASSOCIATE PROFESSORS:	MORTON E. BITTERMAN, PH.D., <i>Chairman</i>
	DONALD ROBERT BROWN, PH.D. ¹
	ROBERT SIMON DAVIDON, PH.D.
INSTRUCTOR:	LISE WERTHEIMER, A.B.
ASSISTANT:	JEAN BRUGGER, M.A.

The Department attempts to present to the major student a representative survey of the most important results of the application of scientific procedures to the problems of human and animal behavior, and training in the procedures themselves. The general applications of Psychology and its relationship to other natural and social sciences are emphasized. The major program is suitable preparation for graduate work.

REQUIREMENTS IN THE MAJOR SUBJECT: Psychology 101, 202b, 204, 302a, 303b and either 302b or one semester of 301. The major may elect Psychology 201a, Education 201a, 202a.

ALLIED SUBJECTS: Anthropology, Biology, Economics, Education, Mathematics, Philosophy, Physics, Political Science and Sociology.

101. *General Psychology*: Mr. Davidon, Mr. Bitterman.

A systematic survey of the basic facts and principles in the various fields of psychology. Three lectures, two hours of laboratory a week.

201a. *Social Psychology*: Miss Wertheimer.

A study of the psychological determinants of social behavior. Three lectures a week. Prerequisite: Any introductory social science course.

1. On sabbatical leave for the year 1957-1958.

202b. *Mental Tests and Measurements*: Mrs. Cox.

Construction, use and interpretation of intelligence, aptitude and personality tests. This course acquaints students with the leading instruments and gives opportunity for observation and testing. Three lectures, two hours of laboratory a week. Prerequisite: Psychology 101.

204. *Experimental Methods and Statistics*: Mr. Davidon.

Methods and findings of experimentation in the study of sensory, perceptual and related processes; the testing of hypotheses. Three lectures, four hours of laboratory a week. Prerequisite: Psychology 101.

301 (a and b). *Advanced Experimental Psychology*: Members of the Department.

Survey of major problems, procedures, and apparatus in a selected area of Experimental Psychology; design of experiments; animal experimentation when appropriate. May be taken for a full year or for either semester. Four hours a week (minimum).

302a. *Psychology of the Normal Personality*: Miss Wertheimer.

The study of the developmental, clinical, and experimental evidence relating to the "normal" personality. Each student will complete a case study under supervision in which theories and modern methods of assessment will be applied. Three hours of discussion a week and individual conferences. Prerequisites: required, Psychology 101; recommended, Psychology 202b, 204.

302b. *Psychology of the Abnormal Personality*: Instructor to be announced.

Concepts of "normality," types of abnormality, methods of investigation, and principles of psychotherapy. Three lectures and one clinic visit a week plus occasional trips to local hospitals for special lectures and demonstrations. Prerequisites: Psychology 101 and 302a.

303a. *Learning and Thinking*: Mr. Bitterman.

A discussion of various theoretical approaches to learning and thinking, including consideration of methodology used in these approaches. Three hourly meetings a week.

Senior Comprehensive Survey of Historical and Systematic Psychology: Members of the Department.

This unit is conducted as a seminar with weekly meetings of two hours each for the purpose of providing an opportunity for senior majors to engage with the staff in informal discussions of theoretical and methodological problems of Psychology at an advanced level. Reading lists are provided for the summer of the Junior year.

FINAL EXAMINATION: The final examination for students majoring in Psychology is in three parts:

1. General Theoretical Psychology (required of all students).
2. Methods of Investigation and Analysis (required of all students).
3. An examination in one of the following fields:
 - Personality, normal and abnormal
 - Learning and Thinking
 - Sensation and Perception
 - Mental Tests and Measurements
 - Social Psychology

For Part 3 a student may substitute a written Honors Thesis or an examination in an allied field, approved by the Department.

HONORS WORK: One unit of Honors work may be taken by students recommended by the Department. This unit may be substituted for Part 3 of the final examination.

Russian

ASSOCIATE PROFESSOR:	FRANCES DE GRAAFF, PH.D., <i>Chairman</i>
LECTURER:	OLGA LANG (Graduate, University of Moscow)

PROFESSOR OF ENGLISH: BETTINA LINN, M.A.

The Russian major is designed to offer the students the opportunity to learn both to read and speak Russian and to achieve an understanding of the literature, thought and culture of pre-revolutionary as well as contemporary Russia.

REQUIREMENTS IN THE MAJOR SUBJECT: Russian 1, 101, 201, and one advanced course. Also Russian 203 or History 206 (History of Russia). If a student offers Russian for entrance, Russian 203 or History 206 may be substituted.

ALLIED SUBJECTS: History 204b, 206 (strongly recommended), 301; Political Science 201a, 210; any language or literature, History of Art, Music, Philosophy.

1. *Elementary Russian*: Miss de Graaff.

The basic grammar is learnt and enough vocabulary to enable the student to speak and understand simple Russian and to read simple texts.

101. *Intermediate Russian*: Miss de Graaff.

Grammar review and composition. Introduction to the Russian literary language. Plays, novels, and some contemporary political material are read.

[201. *Readings in Russian Literature*.]

Representative writers of the Nineteenth Century. Conducted mostly in Russian.

202.* *General Readings in Russian*: Mrs. Lang.

Primarily intended for students who want a good reading knowledge of the language, but are not majoring in Russian. The reading texts cover a wide variety of subject matter, such as history, economics, politics, science, as well as literature. Some lectures in Russian about the cultural background of Russia are included, with oral reports by the students and discussion of specific topics in Russian. Prerequisite: two years of Russian.

203.* *Russian Literature in Translation*: Miss Linn.

The leading Russian writers of the Nineteenth Century in translations. Students registering for the course should read in the preceding summer the following novels: Dostoevsky's *Crime and Punishment*, Tolstoi's *War and Peace*, and two of Turgenev's novels.

An advanced course, given in Russian, is selected from the following:

301. *Russian Poetry of the Nineteenth Century*: Miss de Graaff.

302. *Pushkin and His Time*: Miss de Graaff.

303. *Russian Literature of the Twentieth Century*: Miss de Graaff.

304. *Social Trends in Nineteenth Century Russian Literature*: Miss de Graaff.

FINAL EXAMINATION: The final examination for students majoring in Russian consists of three parts:

1. The Russian language: ability to speak and understand the spoken idiom; ability to translate from the Russian.
2. A period of Russian literature.
3. A paper on a single topic of Russian literature or a paper on an allied subject. The Department is especially interested in allied subjects in the social sciences, given as a part of the Three College Program.

HONORS WORK: Honors work is offered to students recommended by the Department.

Sociology and Anthropology

PROFESSOR OF

ANTHROPOLOGY:

FREDERICA DE LAGUNA, PH.D.,
Chairman

ASSOCIATE PROFESSOR

OF SOCIOLOGY:

EUGENE V. SCHNEIDER, PH.D.

LECTURER:

EDWARD B. HARPER, A.B.

ASSOCIATE PROFESSOR

OF SOCIAL WORK AND

SOCIAL RESEARCH:

HERTHA KRAUS, PH.D.

The aim of the major is to provide the student with a general understanding of human society and human culture, as these have developed in different parts of the world, from prehistoric to modern times. Man's racial and cultural history is traced, and analyses are made of cultural and social institutions of primitive and complex industrial societies. The advanced work is planned to bring together the major contributions in the fields of social and cultural theory. The free elective courses deal with practical problems of social welfare.

REQUIREMENTS IN THE MAJOR SUBJECT: 101, 201a, 203a, 205b or 206b, and 310.

ALLIED SUBJECTS: Classical Archaeology, Economics, Geography, History, Philosophy, Political Science, Psychology, and Statistics.

101. *Man, Culture and Society*: Miss de Laguna, Mr. Schneider.

First Semester: Man's place in nature, the origin and spread of human races, the development of culture from prehistoric to modern times.

Second Semester: Basic cultural and social institutions in primitive and complex societies.

No credit is given unless the work of the whole year is completed.

201a. *Social Institutions*: Mr. Schneider.

Analysis of some major features of the social structure and culture of modern, large-scale societies, with special attention to the United States. Prerequisite: 101.

201b. *Social Problems*: Mr. Schneider.

Analysis of some major social problems of modern, large-scale societies. Prerequisites: 201a and 101 or permission of instructor.

202a.* *Principles of Social Welfare*: Miss Kraus.

Study of the principal social problems in modern industrial society and the means adopted for their solution by public and private agencies.

202b.* *Child Welfare*: Miss Kraus.

Basic problems and methods of providing social and health services for children.

203a. *Primitive Culture*: Mr. Harper.

Analysis of significant studies of culture in selected areas in terms of the methods and aims of ethnography. Prerequisite: 101.

[204. *American Archaeology*: Miss de Laguna.]

205b. *Primitive Society*: Mr. Harper.

Social structures of preliterate peoples; the functions they perform and the types of sanctions which control their members. Prerequisites: 101 and 203a.

206b. *Social Disorganization*: Instructor to be announced.

Analysis of selected areas of disorganization in American society. Prerequisites: 101 and 201a.

310. *Social and Cultural Theory*: Miss de Laguna, Instructor to be announced.

Analysis of the important classic and modern contributions to sociological and ethnological theory. Prerequisites: 101, 201a and 203a.

FINAL EXAMINATION: The final examination for students majoring in Sociology and Anthropology is in three parts:

1. Cultural Anthropology
2. Sociology
3. (a) A special field in either Anthropology or Sociology; or
(b) an allied field.

HONORS WORK: Honors work is offered to students recommended by the Department, and will consist of independent reading and research, conferences, and the preparation of a written report.

Spanish

DEAN OF THE COLLEGE: DOROTHY NEPPER MARSHALL, PH.D.

PROFESSOR: JOSÉ MARIA FERRATER MORA,¹
Licenciado en Filosofía

ASSOCIATE PROFESSOR: JUAN MARICHAL, PH.D.,
Chairman

VISITING LECTURERS: MANUEL ASENSIO, PH.D.
CLAUDIO GUILLÉN, PH.D.

INSTRUCTORS: HOPE KAUFMANN GOODALE, M.A.
SOLEDAD S. MARICHAL, M.A.

The major in Spanish includes work in both literature and language. It includes a two-year survey of Spanish literature, followed by more specialized advanced courses dealing with the literature of special periods, or with various literary forms. One course is devoted to training in written and spoken Spanish. Students are encouraged to supplement their course work by spending the Junior year in Spain or a summer in a Spanish speaking country, or by living in the Spanish House.

REQUIREMENTS IN THE MAJOR SUBJECT: Spanish 101, 203 (a, b) 202c and two advanced courses. Students who spend the Junior year in Spain may substitute an advanced literature course for Spanish 202c.

1. On partial leave of absence for semester II, 1957-1958.

ALLIED SUBJECTS: Any other language or literature, Economics, History, History of Art, Music, Philosophy, Political Science, and Sociology and Anthropology.

1. *Elementary Spanish*: Mrs. Goodale and Mrs. Marichal.

Grammar, composition, readings on the Spanish and Spanish-American background.

3. *Intermediate Spanish*: Mrs. Goodale.

Intensive grammar review and exercises in composition and conversation.

101. *Spanish Literature*: Mr. Marichal.

From its origins to the present day. Emphasis is given to the study of complete texts supplemented by short papers and written exercises.

- [202c. *Spanish Composition*: Mr. Marichal.]

- 203a. *Introduction to Latin-American History*: Mr. Marichal.

Conducted in English. A general view of the cultural history of Latin America. Students majoring in Spanish, or with a sufficient knowledge of the language, will work with original texts.

- 203b. *The Latin-American Novel and Essay*: Mr. Asensio.

A study of the main Latin-American essayists and novelists of the Nineteenth and Twentieth centuries. Special attention will be given to Argentinean and Mexican authors.

- 302b. *The Spanish Lyric*: Mrs. Marichal.

Lyric poetry in the Hispanic countries from the beginnings to the present day. Collateral readings and reports.

- [303. *The Spanish Novel of the Nineteenth and Twentieth Centuries*: Mrs. Marshall, Mr. Marichal.]

- [304a. *The Age of Cervantes*.]

- [304b. *Spanish Drama of the Golden Age*: Mr. Marichal.]

- [305a. *Spanish Literature of the Eighteenth Century*: Mr. Ferrater Mora.]

- [305b. *Spanish Literature of the Middle Ages*.]

306a. *Spanish Prose of the Golden Age*: Mr. Guillén.

[307. *Spanish Thought and Essay of the Nineteenth and Twentieth Centuries.*]

FINAL EXAMINATION: The final examination is in three parts:

1. An oral examination consisting of the explanation and interpretation of a Spanish text in Spanish.
2. A three-hour written examination in Spanish on a period of Spanish literature.
3. A three-hour written examination on the development of a literary genre through Spanish literature.

An examination in an allied subject may be substituted for one of the two written examinations.

HONORS WORK: Honors work is offered to students recommended by the Department. This work consists of independent reading, conferences, and a long paper.

Interdepartmental Courses

The following courses are given by several Departments in cooperation. The object is to cut across well-defined areas of knowledge and to show the relationships existing among them.

[202. *Aspects of Eighteenth Century Life and Thought*: Miss Robbins, Miss Northrop, Miss Stapleton.]

203. *The Development of Scientific Thought*: Miss Wyckoff, and other Members of the Faculty.

The development of scientific ideas is traced against the historical background of other intellectual activities, social changes, and technological inventions. Important scientific concepts and theories are analyzed, and the basic assumptions of scientists of the past are compared with those of the present day. The course is open to students who have had one year of laboratory science in college, and should be of special interest to those majoring in History, Philosophy, Mathematics, or Science.

210. *The Soviet System*: Mr. Hunter, Haverford College.

An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current arrangements are studied as products of historical development. Present performance and prospects are evaluated. The first semester of the course may be taken without the second. Prerequisites: Economics 101 or Political Science 101a and 102b or History 101. (This course is also listed as Political Science 210.)

[301. *The Theory and Practice of Democracy*: Mr. Wells, Miss Stapleton, Miss Stearns, Mr. Hubbard.]

The fundamental concepts of democracy and their expression in governmental institutions; their relationship to contemporary political problems. Open to Juniors and Seniors who have taken one year of History, Economics, Political Science or Philosophy, and to other students with the permission of the instructors. (This course is also listed as Political Science 301.)

Physical Education

DIRECTOR:	IRENE A. CLAYTON, M.S.
INSTRUCTORS:	ETHEL M. GRANT
	GLORIA SCHMIDT, M.A.
	JANET YEAGER

Through the offerings in the Physical Education Department, students are given opportunities to participate in varied fields of both individual and team sports, dance, and aquatic activities. Class instruction during the first two years enables the student to learn new skills or to improve her techniques. Interclass, Interhall and Varsity schedules of games and tournaments offer all students the experience of competition in sports. Creative interest in modern dance is encouraged through class work and extra-curricular programs. The Department cooperates with the Athletic Association in sponsoring Square Dance nights, and in promoting the activities of the Dance Club, the Synchronized Swimming Club, and the Outing Club.

The freshman requirement in Physical Education consists of three periods a week throughout the year; part of the fall and winter terms will be given over to the study of fundamental principles of good movement. The sophomore requirement consists of two periods a week throughout the year. All students must complete the freshman and sophomore requirements satisfactorily, and must pass the swimming test administered at the beginning of the year to every new student who is not excused by the College Physician. Students unable to pass this test are expected to register for beginning swimming. All classes are open to election by upperclassmen. Students transferring from other colleges will have their physical education requirement reviewed by the Director of the Department.

Seasonal offerings from which election may be made are:

FALL: archery, beginning swimming, fencing, golf, hockey, modern dance, riding,* tennis and American Red Cross Senior Life Saving course. WINTER: badminton, basketball, fencing, beginning golf, folk dance, modern dance, skating,* swimming, volleyball, and American Red Cross Instructor course. SPRING: archery, golf, lacrosse, riding,* softball, swimming and tennis. SWIMMING TEST: one standing dive, back float 2 minutes, tread water one minute, bobbing twice, and swimming any stroke 20 minutes.

* Open only to Sophomores with permission of the Department.

Academic Awards

Scholarships

THE scholarships listed on the following pages have been made available to able and deserving students through the generosity of alumnae and friends of the College. Many of them represent the income on endowed funds. The awards made from the larger scholarship endowments are reported in specific amounts. In the case of the awards made from the smaller scholarship endowments where the specific amount is not reported, the stipend may, if necessary, be supplemented by an additional grant, usually taken from expendable gifts from alumnae and parents.

Three outstanding national scholarship programs have recently been established by the General Motors Corporation, the National Merit Scholarship Corporation and the Procter and Gamble Company. The Ford Company has a scholarship program for the children of its employees as do other large companies. In addition to the generous awards made by these companies there are many others made by foundations and by industrial and professional groups. Some of these are regional in designation. Students are urged to consult their schools and community agencies for information in regard to such opportunities.

Scholarship aid is held by about one-quarter of the present undergraduate college, the average grant being \$775. Awards are made by the Scholarship Committee on the basis of both academic achievement and financial need. They are based on recommendations from the Faculty and a formal application by the candidate and her parents or guardians in which a full statement is made of the reasons for the request for financial aid.

Scholarships are available both to entering students and to those who have completed one or more years of study in the College. Students entering on transfer from other colleges are eligible for scholarships only after the completion of one year of study at Bryn Mawr.

APPLICATIONS FOR SCHOLARSHIPS TO BE HELD AT ENTRANCE

Application forms for entrance scholarships may be obtained from the Director of Admissions, Taylor Hall, Bryn Mawr College, Bryn Mawr, Pennsylvania. *Applications should be filed by January 31st of the student's senior year in high school.* The form entitled *Parents' Confidential Statements in Support of Applications for Financial Aid* should be returned to the College Scholarship Service, Box 176, Princeton, New Jersey.

Bryn Mawr is participating in the College Scholarship Service of the College Entrance Examination Board. The colleges using the Service join in the belief that scholarships should be awarded to properly qualified students after careful consideration of the financial need of the students and their families. The College Scholarship Service acts as a clearing house for applications, sending to the College the report from parents or guardians. The College itself selects the award winners and decides upon the terms of the awards.

UNDERGRADUATE SCHOLARSHIPS

The renewal like the award of scholarships depends on the student's maintaining a good record. Application for the renewal of scholarships must be made annually. The necessary forms may be obtained in the Office of the Dean. Completed forms must be returned to the Dean of the College by March 15th.

SCHOLARSHIPS AWARDED AT ENTRANCE AND TENABLE FOR FOUR YEARS

Bryn Mawr Alumnae Regional Scholarships are available to students in all parts of the United States. These scholarships vary in amount but generally cover full tuition. In most districts of the Alumnae Association they are given by the alumnae, in certain districts by the College. A list of these districts and of the Alumnae District Councillors will be found on page 126. The awards are made by local alumnae committees and are announced to the candidates immediately after their notification of admission to the College. Holders of these scholarships who maintain a high standard of academic work and conduct, and who continue to need financial aid after the freshman year, are assured of assistance either from alumnae committees in their districts or from the College. (1922)¹

1. Dates in parentheses indicate year scholarship was established.

The Florence and Dorothy Child Memorial Scholarship of Bryn Mawr College was founded in 1957 by bequest of Florence C. Child of the Class of 1905. The income from this fund is to be used for the residence fees of one or more students who without such assistance would be unable to live in the halls. Preference is to be given to graduates of the Agnes Irwin School and to members of the Society of Friends. If no suitable applicants are available in these two groups, the scholarship aid should then be assigned by and at the discretion of the proper authorities of Bryn Mawr College to students who could not live in residence without such assistance and who are not holding other scholarships.

The Charles E. Ellis Scholarship, value \$700, tenable for four years, was founded by bequest of the late Charles E. Ellis. It is awarded on the recommendation of the Superintendent of Public Schools of the City of Philadelphia, subject to the approval of the Board of Directors of Bryn Mawr College, to a student educated in the Philadelphia Public Schools. (1909)

The Foundation Scholarships, varying in amount up to full tuition and tenable for four years, are made available by the Trustees of Bryn Mawr College. They may be awarded annually upon conditions, so far as possible, similar to the Trustees' Scholarships (see page 110), to members of the Society of Friends who cannot meet the full expenses of tuition and residence. (1894)

The Priscilla Hunt Scholarship was given in memory of Priscilla Hunt of the Class of 1950 by her mother and father, Ruth Van Natta Hunt and Leigh L. Hunt. The scholarship, first awarded in 1955-1956 in the amount of \$1,000 and tenable for four years, will be awarded every four years to a candidate from certain counties in the state of Indiana. (1955)

The Lillia Babbitt Hyde Foundation Scholarship in Science, value up to \$1,000, is awarded to an entering student on the basis of school and test records and an essay competition in science. The amount of the scholarship varies in accordance with the need of the applicant. These scholarships are made possible by grants from the Lillia Babbitt Hyde Foundation to encourage women to enter science and pre-medical studies. (1948)

The Minnie Murdock Kendrick Memorial Scholarship, carrying free tuition and tenable for four years, was founded by bequest of \$5,000 under the will of George W. Kendrick, Jr., in memory of his wife. It is awarded every four years to a candidate nominated by the Board of Public Education of Philadelphia. (1916)

The Gertrude Howard McCormick Scholarship Fund was established by gift of \$25,000 by the late Gertrude Howard McCormick. The scholarship, value \$1,000, is awarded to a student of excellent standing, preferably for her freshman year. If she maintains excellent work in college, she may continue to receive scholarship aid through her sophomore, junior and senior years. (1950)

The Philadelphia Board of Public Education Scholarships are awarded to graduates of Philadelphia high schools nominated by the Board of Public Education of Philadelphia. (1898)

The Procter and Gamble Scholarship, awarded every year, carries free tuition and an allowance for books and supplies and is tenable for four years. This scholarship program was established by the Procter and Gamble Company "in recognition of the responsibility assumed by private women's colleges in graduating capable, well-informed women." The award is made by Bryn Mawr College. (1955)

The Lidie C. B. Saul Scholarship, tenable for four years, is given by the Alumnae Association of the Girls' High School and Normal School of Philadelphia. It is awarded every four years to the graduate of the Girls' High School who enters Bryn Mawr College with the highest grade of that year. (1895)

Seven College Conference Scholarships are awarded annually by the Seven College Conference (Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar and Wellesley). One scholarship, varying in amount up to full expenses for tuition and residence, is given annually by each of the colleges in each of three areas: the *far west* (Washington, Oregon, California and Idaho) the *central states* (Kansas, Missouri, Nebraska and Colorado) and the *southwest* (Arizona, Louisiana, New Mexico, Oklahoma, Texas and Arkansas). One of these scholarships is supported at Bryn Mawr by a grant made by the *George F.*

Baker Trust. (1950). The others are supported by income from the *Fanny R. S. Peabody Fund* of \$177,927. (1943)

The Frances Marion Simpson Scholarships, carrying free tuition and tenable for four years, were founded in memory of Frances Simpson Pfahler of the Class of 1906 by Justice Alexander Simpson, Jr., by gifts amounting to \$20,000. One scholarship is awarded each year to a member of the entering freshman class who cannot meet in full the fees of the College. In awarding these scholarships first preference is given to residents of Philadelphia and Montgomery Counties who have been prepared in the public schools of these counties or at home by parents or guardians, thereafter, under the same conditions, to residents of other counties of Pennsylvania, and, in special cases, to candidates from other localities. Holders of these scholarships are expected to repay the sums advanced to them. If they become able during their college course to pay the tuition fees in whole or in part, they are required to do so. (1912)

The Trustees' Scholarships, varying in amount up to full tuition, and tenable for four years, are made available by the Trustees of Bryn Mawr College for students prepared in the high schools of Philadelphia and its suburbs. Two of these scholarships are awarded annually to candidates who have received all their preparation for entrance in Philadelphia high schools and are recommended by the Board of Public Education of Philadelphia; two are awarded annually to candidates who have received all their preparation for entrance in public schools in the suburbs of Philadelphia and are awarded by the College after consultation with the principals of the schools presenting candidates. The amount of the award varies according to the need of the applicant. (1895)

For other large four-year scholarships, not in the award of Bryn Mawr College, students should see page 106.

FOR FOREIGN STUDENTS

The Chinese Scholarship, awarded every four years and tenable for four years, comes in part from the annual income of a fund now totalling \$30,027 established by a group of alumnae and friends of the College in order to meet all or part of the expenses of a Chinese student during her four undergraduate years at Bryn Mawr College. (1917)

The Marguerite N. Farley Scholarships for foreign students were established in 1956 by bequest of Marguerite N. Farley. The income from a fund of \$300,000 will be used for scholarships for foreign students covering part or all of their expenses for tuition and residence.

The Special Trustees' Scholarship is awarded every four years to a foreign student. It carries free tuition and is tenable for four years. These scholarships for students from foreign countries were established by the Trustees in 1940.

The Undergraduate Scholarship, raised and awarded by the Undergraduate Association in consultation with the President and the Director of Admissions, is awarded every four years to a foreign student entering Bryn Mawr. The award is variable in amount but covers as a minimum the cost of tuition.

SCHOLARSHIPS AWARDED AT ENTRANCE AND TENABLE FOR THE FRESHMAN YEAR ONLY

The Bryn Mawr School Scholarship, instituted by the Board of Managers of the Bryn Mawr School of Baltimore, Maryland, has been offered annually since the College opened in 1885 to the graduate of the Bryn Mawr School who has completed the school course with the greatest distinction and who plans to enter Bryn Mawr College.

The Alice Day Jackson Scholarship Fund of \$10,000 was given by the late Percy Jackson in memory of his wife, Alice Day Jackson. (1930)

The Clara Bertram Little Memorial Scholarship was founded by Eleanor Little Aldrich, in memory of her mother. The income from a fund now totalling \$10,000 is awarded to a student from New England selected by the President on the basis of merit and financial need. (1947)

The Louise Hyman Pollak Scholarship, carrying full tuition, was founded by the Board of Trustees from a bequest by Louise Hyman Pollak of the Class of 1908. The income from a fund of \$6,666 is awarded annually to a student from one of the central states, east of the Mississippi River. Preference is given to residents of Cincinnati. (1931)

The Amy Sussman Steinhart Scholarship, carrying full tuition, was founded in memory of Amy Sussman Steinhart of the Class of 1902 by her family and friends. The income from gifts now totalling \$11,383 is awarded annually to a student from one of the states on the west coast. (1931)

The Evelyn and Caroline Warram—Bryn Mawr Scholarship, carrying free tuition, was given in 1956 by Mr. and Mrs. James H. Warram. It is to be awarded each year to an entering student from the State of Oklahoma.

SCHOLARSHIPS AWARDED AT THE END OF THE FRESHMAN YEAR AND TENABLE FOR THE THREE SUBSEQUENT YEARS

The Jeannette Peabody Cannon Memorial Scholarship Fund, now totalling \$7,405, was established in memory of Jeannette Peabody Cannon, Class of 1919, through the efforts of the New England Alumnae Regional Scholarship Committee, of which she was a member for twenty years. The scholarship is awarded every three years at the termination of the freshman year on the nomination of the Alumnae Scholarship Committee to a promising member of the freshman class residing in New England who needs financial assistance. The scholarship may be held during the remaining three years of her college course provided a high standard is maintained. (1949)

The Leila Houghteling Memorial Scholarship Fund in the amount of \$10,000 was founded in memory of Leila Houghteling of the Class of 1911 by members of her family and a group of her contemporaries. It is awarded every three years on the nomination of the Alumnae Scholarships and Loan Fund Committee to a member of the freshman class in need of financial assistance and is held during the remaining three years of her college course. (1929)

SCHOLARSHIPS AWARDED AT THE END OF THE FRESHMAN YEAR AND TENABLE FOR THE SOPHOMORE YEAR ONLY

The Maria Hopper Scholarships, two in number, were founded by bequest of \$10,000 under the will of Maria Hopper of Philadelphia and are awarded annually. (1901)

The James E. Rhoads Memorial Sophomore Scholarship, value \$850, was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. It is awarded annually to a student who has attended Bryn Mawr College for at least one semester, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. The income of a fund of \$21,000, is supplemented annually by a gift from the Alumnae Association. (1897)

SCHOLARSHIPS AWARDED AT THE END OF THE
SOPHOMORE YEAR AND TENABLE FOR THE
TWO SUBSEQUENT YEARS

The Jeanne Crawford Hislop Memorial Scholarship Fund of \$5,000 was given in memory of Jeanne Crawford Hislop of the Class of 1940 by Mr. and Mrs. John H. Hislop and Mrs. Frederic W. Crawford. This scholarship may be renewed for the senior year. (1939)

The Serena Hand Savage Memorial Scholarship was established in memory of Serena Hand Savage of the Class of 1922 by her friends. The income from a fund of \$21,729 is awarded to a member of the junior class who shows great distinction of scholarship and character and who needs financial assistance. This scholarship may be renewed in the senior year. (1951)

SCHOLARSHIPS AWARDED AT THE END OF THE
SOPHOMORE YEAR AND TENABLE FOR THE
JUNIOR YEAR ONLY

The Anna Hallowell Memorial Scholarship was founded in memory of Anna Hallowell by her family. The income on a fund of \$2,585 is awarded annually to the student in need of aid who has the highest academic record. (1912)

The James E. Rhoads Memorial Junior Scholarship, value \$850, was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. It is awarded annually to a student who has attended Bryn Mawr College for at least three semesters, has done excellent work and expresses her intention of fulfilling the

requirements for the degree of Bachelor of Arts at Bryn Mawr College. The income of a fund of \$21,000 is supplemented annually by a gift from the Alumnae Association. (1897)

The Mary E. Stevens Scholarship Fund of \$3,188 was given in memory of Mary E. Stevens by former pupils of The Stevens School in Germantown. A scholarship of \$500 is awarded by the President of the College. (1897)

SCHOLARSHIPS AWARDED AT THE END OF THE JUNIOR YEAR AND TENABLE IN THE SENIOR YEAR ONLY

The Anna M. Powers Memorial Scholarship was founded in memory of Anna M. Powers by a gift of \$5,000 from her daughter, the late Mrs. J. Campbell Harris. (1902)

The Thomas H. Powers Memorial Scholarship was founded in memory of Thomas H. Powers by bequest under the will of his daughter, the late Mrs. J. Campbell Harris. (1922)

SCHOLARSHIPS TENABLE IN ANY YEAR AFTER THE FRESHMAN YEAR

The Book Shop Scholarships are awarded annually from the profits of the Bryn Mawr College Book Shop and from the income from the Book Shop Fund which now amounts to \$15,555. (1947)

The Jacob Fussell Byrnes and Mary Byrnes Fund was founded in memory of her father and mother, by a bequest of \$51,513 under the will of Esther Fussell Byrnes of the Class of 1891. By vote of the Board of Directors the income is used for annual scholarships for students in need of financial aid. (1948)

The Susan Shober Carey Award was founded in memory of Susan Shober Carey by a gift totalling \$3,200 from the Class of 1925 and is awarded annually by the President. (1931)

The Jacob Orie and Elizabeth S. M. Clarke Memorial Scholarship was established by bequest of \$5,000 from the estate of Elizabeth Clarke and is awarded annually to a student born in the United States or any of its territories. (1948)

The Class of 1903 Scholarship Fund was established by gift of \$12,295 on the occasion of the fiftieth reunion of the Class. The income from this fund is to be awarded annually to a member of the freshman, sophomore or junior class for use in the sophomore, junior or senior years. (1953)

The Class of 1920 Memorial Scholarship Fund was founded in memory of classmates by the Class of 1920 from reunion gifts totalling \$2,145. The income from the Fund is to be awarded annually. (1955)

The Alice Perkins Coville Scholarship Fund, now totalling \$5,000, was established by Agnes Frances Perkins of the Class of 1898 in honor of her sister, Alice Perkins Coville. The income from this scholarship fund is used to aid a deserving student in need of financial assistance. (1948)

The Regina Katharine Crandall Scholarship was established by a group of her students as a tribute to Regina Katharine Crandall, Margaret Kingsland Haskell Professor of English Composition from 1918 to 1933. The income from this fund, which now amounts to \$10,225, is awarded on the recommendation of a committee composed of the Dean of the College, a representative of the English Department, and a representative of another department chosen by the Dean, to a sophomore, junior or senior who in her written English has shown ability and promise and who needs assistance to continue her college work. (1950)

The E. Merrick Dodd and Winifred H. Dodd Scholarship Fund of \$2,000 was established by bequest of Dr. and Mrs. Dodd. (1953)

The Abby Slade Brayton Durfee Scholarship Fund, which now amounts to \$9,000 was founded in honor of his wife by bequest of Randall Nelson Durfee and increased by Mrs. Durfee and by Randall N. Durfee, Jr. and Mrs. Charles B. Brown of the Class of 1930. Preference in awarding it is given to candidates of English or American descent and to descendants of the Class of 1894. (1924)

The Katharine Hepburn Scholarship, value \$1,000, given for the year 1957-1958, is awarded in honor of Katharine Hepburn to a student interested in the study of drama and motion

picture, and to the cultivation of English diction and of literary appreciation. (1952)

The George Bates Hopkins Memorial Scholarships were founded in memory of her father by a gift of \$10,000 from Mrs. Elizabeth Hopkins Johnson. Preference is given to students of music and, in default of these, to students majoring in history, and thereafter to students in other departments. (1921)

The Evelyn Hunt Scholarships, two in number, were founded in memory of Evelyn Hunt of the Class of 1898 by bequest of \$10,000 under the will of Eva Ramsay Hunt. (1931)

The Lillia Babbitt Hyde Foundation Scholarships in Science and Pre-Medical Studies are awarded to students who have demonstrated ability in biology, chemistry or physics and who are in need of financial aid. These scholarships are made possible by grants from the Lillia Babbitt Hyde Foundation to encourage women to enter science and pre-medical studies. (1948)

The Misses Kirk Scholarship Fund, now amounting to \$1,375, was founded in honor of the Misses Kirk by the Alumnae Association of the Kirk School in Bryn Mawr. (1929)

The Constance Lewis and Martha Rockwell Moorhouse 1904 Memorial Scholarship Fund now amounting to \$17,930 was established by the Class of 1904 in memory of Constance Lewis and Martha Rockwell Moorhouse of the Class of 1904. (1920).

The Mary Anna Longstreth Memorial Scholarship, established by a gift of \$5,000 and carrying free tuition, was given in memory of Mary Anna Longstreth by alumnae and children of alumnae of the Mary Anna Longstreth School and by a few of her friends. (1913)

The Lorenz-Showers Scholarship Fund of \$3,000 was established by Justina Lorenz Showers of Dayton, Ohio, of the Class of 1907, in honor of her parents, Edmund S. Lorenz and Florence K. Lorenz, and of her husband, John Balmer Showers. (1943)

The Jean Brunn Mungall 1944 Memorial Fund was established by the Class of 1944 at its 1955 reunion. The income is to be used for scholarships.

The Mary McLean and Ellen A. Murter Memorial Fund, now amounting to \$14,320, was founded in memory of her two aunts

by bequest of Mary E. Stevens of Germantown, Philadelphia. By vote of the Board of Directors the income is used for an annual scholarship. (1933)

The Florence Morse Palmer Scholarship was founded in memory of Florence Morse Palmer by her daughter, Jean T. Palmer, of the Class of 1924, by gifts now totalling \$7,108. (1954)

The Anna Powers Memorial Scholarship was established by a gift of \$1,000 in memory of Anna Powers of the Class of 1890 by her sister, Mrs. Charles Merrill Hough. (1919)

The Amelia Richards Scholarship was founded in memory of Amelia Richards of the Class of 1918 by bequest of \$10,000 under the will of her mother, Mrs. Frank P. Wilson. It is awarded annually by the Trustees on the nomination of the President. (1921)

The Mary Williams Sherman Memorial Scholarship Fund, now amounting to \$4,152, was established by bequest of Bertha Williams of Princeton, New Jersey. (1942)

The Shippen Huidekoper Scholarship Fund of \$5,000 was established by an anonymous gift. The income is awarded annually on the nomination of the President. (1936)

The Anna Margaret Sloan and Mary Sloan Scholarships were founded by bequest of Mary Sloan of Pittsburgh. The income from this fund of \$16,858 is awarded annually to students majoring in philosophy or psychology. (1942)

The Mary Hamilton Swindler Scholarship was established in honor of Mary Hamilton Swindler, Professor of Classical Archaeology from 1931 to 1949, by a group of friends and former students, by gifts totalling \$6,630. The income from this fund is used for a scholarship for the study of Archaeology at Bryn Mawr College. (1950)

The Elizabeth Wilson White Memorial Scholarship was founded in memory of Elizabeth Wilson White by a gift of \$7,500 by Thomas Raeburn White. It is awarded annually by the President. (1923)

The Mary Peabody Williamson Scholarship was founded by bequest of \$1,000 by Mary Peabody Williamson of the Class of 1903. (1939)

The Lila M. Wright Memorial Scholarship was founded in memory of Lila M. Wright by gifts totalling \$2,681 from the alumnae of Miss Wright's School of Bryn Mawr. (1934)

The Georgie W. Yeatman Scholarship was founded by bequest of \$1,000 under the will of Georgie W. Yeatman of Philadelphia. (1941)

Prizes

The following scholarships and prizes are in the award of the Faculty and are given solely on the basis of academic merit.

The Bryn Mawr European Fellowship, value \$1,000, has been awarded each year since the first class was graduated in 1889. It is given for merit to a member of the graduating class, to be applied toward the expenses of one year's study at some foreign university. The holder of this fellowship receives in addition an *Elizabeth S. Shippen Scholarship for Foreign Study*.

The Hester Ann Corner Prize for distinction in literature was established in memory of Hester Ann Corner, of the Class of 1942, by gifts totalling \$2,125 from her classmates and friends. The award is made every second year to a junior or senior on the recommendation of a committee composed of the chairmen of the departments of English and of classical and modern foreign languages. Awarded in 1957. (1950)

The Maria L. Eastman Brooke Hall Memorial Scholarship was founded in memory of Maria L. Eastman, Principal of Brooke Hall School for Girls, Media, Pennsylvania, by gifts totalling \$3,000 from the alumnae and former pupils of the school. It is awarded annually to the member of the junior class with the highest general average and is held during the senior year. Transfer students who enter Bryn Mawr as members of the junior class are not eligible for this award. (1901)

The Katherine Fullerton Gerould Memorial Prize was founded by a gift of \$1,300 from a group of alumnae, many of whom were students of Mrs. Gerould when she taught at Bryn Mawr from

1901-1910. It is awarded by a special committee to a student who shows evidence of creative ability in the fields of informal essay, short story, longer narrative or verse. (1946)

The Elizabeth Duane Gillespie Fund for Scholarship in American history was founded by a gift of \$1,500 from the Pennsylvania Society of Colonial Dames of America in memory of Elizabeth Duane Gillespie. Two prizes are awarded annually on nomination by the Department of History, one to a member of the sophomore or junior class for work of distinction in American history, a second to a student doing advanced work in American History for an essay written in connection with that work. The income from this Fund has been supplemented since 1955 by an annual gift from the Pennsylvania Society of the Colonial Dames. (1903)

The Theresa Helburn Playwriting Awards, open to all students of the College, are given by Theresa Helburn to encourage playwriting. Original work is required; adaptations, translations and collaborations are not eligible.

The Charles S. Hinchman Memorial Scholarship was founded in memory of the late Charles S. Hinchman of Philadelphia by a gift of \$12,000 made by his family. It is awarded annually to a member of the junior class for work of special excellence in her major subject and is held during the senior year. (1917)

The Sheelah Kilroy Memorial Scholarships in English were founded in memory of their daughter Sheelah, by Dr. and Mrs. Philip Kilroy by a gift of \$5,000. These scholarships are awarded annually on the recommendation of the Department of English as follows: to a student for excellence of work in second-year or advanced courses in English, and to the student in the first-year course in English Composition who writes the best essay during the year. (1919)

The Helen Taft Manning Essay Prize in History was established in honor of Helen Taft Manning, in the year of her retirement, by her class—1915. The income on a fund of \$2,600 is to be awarded as the Department of History may determine. (1957)

The Jeanne Quistgaard Memorial Prize was given by the Class of 1938 in memory of their classmate, Jeanne Quistgaard.

The income on this fund of \$498 may be awarded every two years to a student in Economics. Awarded in 1956. (1938)

The Elizabeth S. Shippen Scholarships were founded by two bequests of \$5,000 each under the will of Elizabeth S. Shippen of Philadelphia. Three scholarships are awarded annually, one to the member of the senior class who receives the Bryn Mawr European Fellowship, and two to members of the junior class, as follows: 1. *The Shippen Scholarship in Science*, to a student whose major subject is biology, chemistry, geology or physics; 2. *The Shippen Scholarship in Foreign Languages*, to one whose major subject is French, German, Greek, Italian, Latin, Russian or Spanish. To be eligible for either of these two scholarships a student must have completed at least one semester of the second-year course in her major subject. Neither may be held by the winner of the Charles S. Hinchman Memorial Scholarship. Work in elementary courses will not be considered in awarding the scholarship in foreign languages; 3. *The Shippen Scholarship for Foreign Study* (See European Fellowship, page 118). (1915)

The M. Carey Thomas Essay Prize is awarded annually to a member of the senior class for distinction in writing. The award is made by the Department of English for either creative or critical writing. It was established in memory of Miss Thomas by her niece, Millicent Carey McIntosh of the Class of 1920. (1943)

The Esther Walker Award was founded by the bequest of \$1,000 from William John Walker in memory of his sister, Esther Walker, of the Class of 1910. It may be given annually to a member of the senior class who in the judgment of the Faculty shall have displayed the greatest proficiency in the study of living conditions of Northern Negroes. (1940)

Scholarships for Medical Study

The following scholarships may be awarded to seniors intending to study medicine, after their acceptance by a medical school, or to graduates of Bryn Mawr intending or continuing to pursue medical education. Applications for the scholarships should be made to the Dean of the College before April 15th preceding the academic year in which the scholarship is to be held.

Applications for renewal of scholarships must be accompanied by letters of recommendation from instructors in the medical school.

The Linda B. Lange Fund was founded by bequest of \$30,000 under the will of Linda B. Lange, of the Class of 1903. The income from this fund will provide the Anna Howard Shaw Scholarship in Medicine and Public Health, awarded on recommendation of the President and Faculty to a member of the graduating class or a graduate of the College for the pursuit, during an uninterrupted succession of years, of studies leading to the degrees of M.D. and Doctor of Public Health. The award may be continued until the degrees are obtained. (1948)

The Hannah E. Longshore Memorial Medical Scholarship was founded by Mrs. Rudolph Blankenburg in memory of her mother by a gift of \$10,000. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school and may be renewed for each year of medical study. (1921)

The Jane V. Myers Memorial Medical Scholarship Fund of \$10,000 was established by Mrs. Rudolph Blankenburg in memory of her aunt. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)

The Harriet Judd Sartain Memorial Scholarship Fund was founded by bequest of \$21,013 under the will of Paul J. Sartain. The income from this fund is to establish a scholarship which is awarded to a member of the graduating class who in the judgment of the Faculty needs and is deserving of assistance for the study of medicine. This scholarship may be continued for the duration of her medical course. (1948)

Loan Funds

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

The committee in administering this money follows a definite policy which tries to serve the best interests of the students concerned. Loans may be used for any purpose approved by the committee. Students who wish loans may obtain from the Dean the necessary blanks, which must be accompanied by a letter of recommendation from the Dean. As a rule, money is not loaned to freshmen or to students in their first year of graduate work. Applications, except in cases of emergency, must be filed before September 10. Approximately a month is required for action on applications.

The terms under which money is loaned are as liberal as is consistent with business-like principles. While the student is in College no interest is charged, but she may reduce the principal of the loan if she so desires; after the student leaves College, the interest rate is two per cent. The entire principal must be repaid within five years from the time the student leaves College at the rate of twenty per cent each year.

Contributions to the Loan Fund may be sent to the Chairman of the Scholarships and Loan Fund Committee, Alumnae Office, Bryn Mawr, Pennsylvania. Students who wish to borrow from the Loan Fund may obtain application blanks for this purpose from the Alumnae Office, which is situated on the second floor of the Deanery.

The Mary Hill Swope Loan Fund was established June 1, 1945 by a gift of the late Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

1. The following order of preference shall be followed in awarding such loans:

- a. To students coming from New Jersey.
- b. To students coming from Missouri.
- c. To students coming from any other location who have had not less than one year of residence at the College.

2. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn Mawr College, or by a Committee appointed by her from time to time.

3. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.

4. These loans shall be used primarily to enable the exceptional student to continue her studies which otherwise would be prevented through lack of means.

5. In the awarding of the loans, the recipient should understand that if in after years she is in a position to do so, she is to repay to the income account of the Loan Fund the amount so loaned to her, with or without interest. It is to be understood that this is entirely a moral obligation upon the recipient.

Student Employment

Students may obtain employment such as clerical and library work, typing, reading aloud, child care and waiting on table through the Bureau of Recommendations, Taylor Hall. In conducting this Bureau, the College offers an employment service for permanent, temporary and part-time positions to its alumnae and former students as well as to those in college. It also offers to students a vocational service, which includes vocational tests, assistance in choosing a vocation and the presentation of a series of conferences and lectures on opportunities for women in various fields. Students registering with the Bureau will be informed of openings in the kind of work they have requested.

The Bureau also acts as a clearing house for letters of recommendation for its registrants; these letters will be sent upon request, to prospective employers and other agencies for summer work for undergraduates or for full or part-time employment for alumnae and former students.

Students of foreign citizenship wishing employment should consult the Adviser to Foreign Students whose office is in the Library.

Alumnae Representatives

All Alumnae officers and representatives will be glad to give general information about the College.

Specific questions in regard to admissions or scholarships should be directed to the Office of Admissions, Bryn Mawr College, Bryn Mawr, Penna.

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To Make a Bequest to Bryn Mawr

FORM FOR UNRESTRICTED GIFT

I give and bequeath to the Trustees of Bryn Mawr College, a Pennsylvania corporation located at Bryn Mawr, Pennsylvania, the sum of dollars as an unrestricted gift.

FORM FOR GIFT AS ADDITION TO GENERAL ENDOWMENT

I give and bequeath to the Trustees of Bryn Mawr College, a Pennsylvania corporation located at Bryn Mawr, Pennsylvania, the sum of dollars, which sum shall be added to the general, unrestricted permanent endowment funds of the College, so that the income derived from the principal of this bequest may be used for general College purposes.

FORM FOR GIFT AS ADDITION TO EXISTING TRUST OR FUND

I give and bequeath to the Trustees of Bryn Mawr College, a Pennsylvania corporation located at Bryn Mawr, Pennsylvania, the sum of dollars, which sum shall be added to the principal of the XYZ Memorial Fund heretofore created by and now administered by the College. The additional income of the Fund derived from this bequest shall be applied in accordance with the terms under which the XYZ Memorial Fund was established.

For those considering establishing a separate trust fund for the accomplishment of a specific purpose, information may be obtained from the President of the College or from the Committee on Bequests, Bryn Mawr College, Bryn Mawr, Pennsylvania.

How to Get to Bryn Mawr

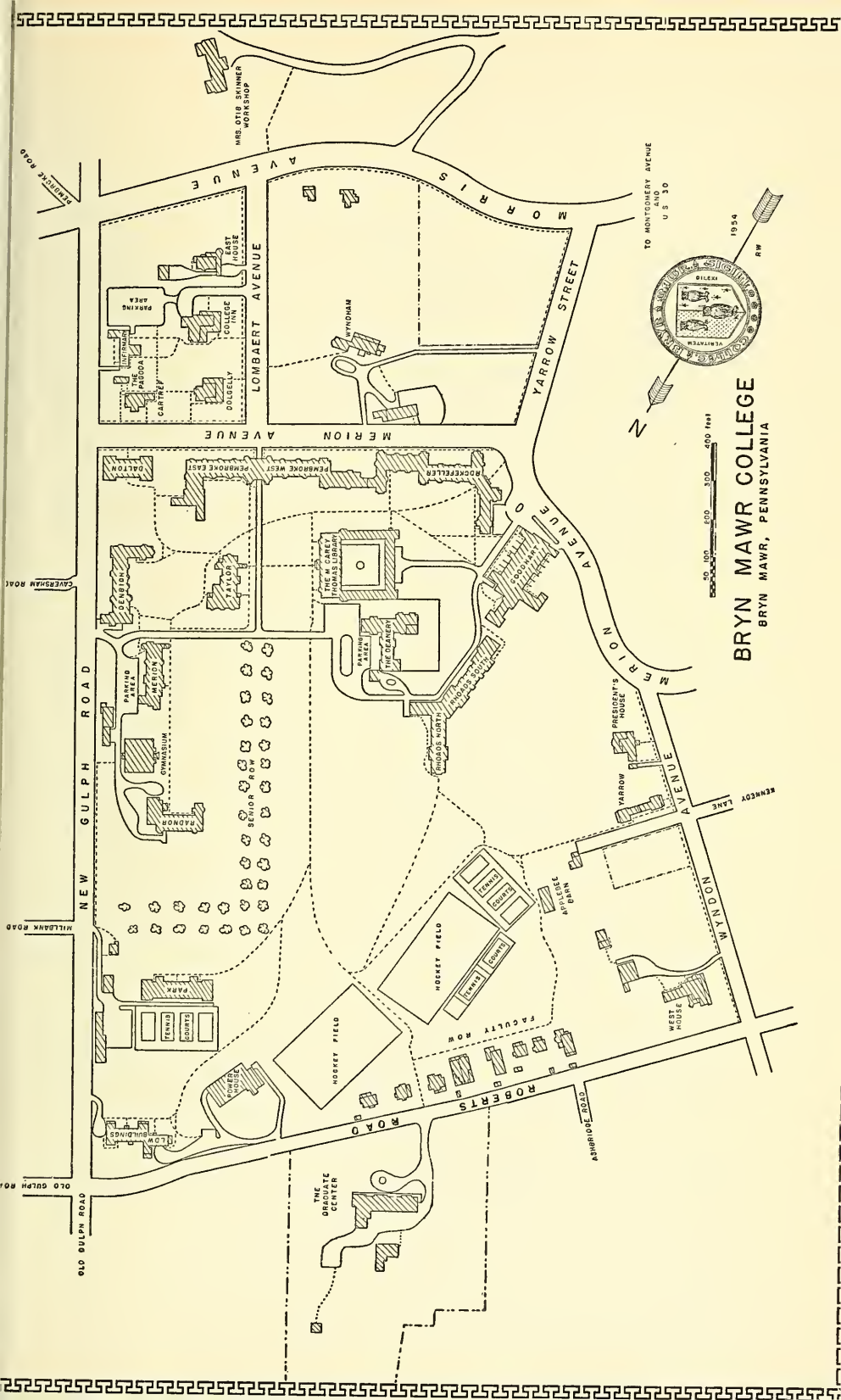
Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.

By automobile: From the east or west take U.S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43), turning right at Pa. #23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues and take the next left (Yarrow Street), proceeding one block to the College, entering at Goodhart Hall gate on the right.

By air: Passengers arrive at the Philadelphia International Airport and can use the airport limousine to 30th Street Station in Philadelphia or take a taxi directly to Bryn Mawr, a distance of 14 miles.



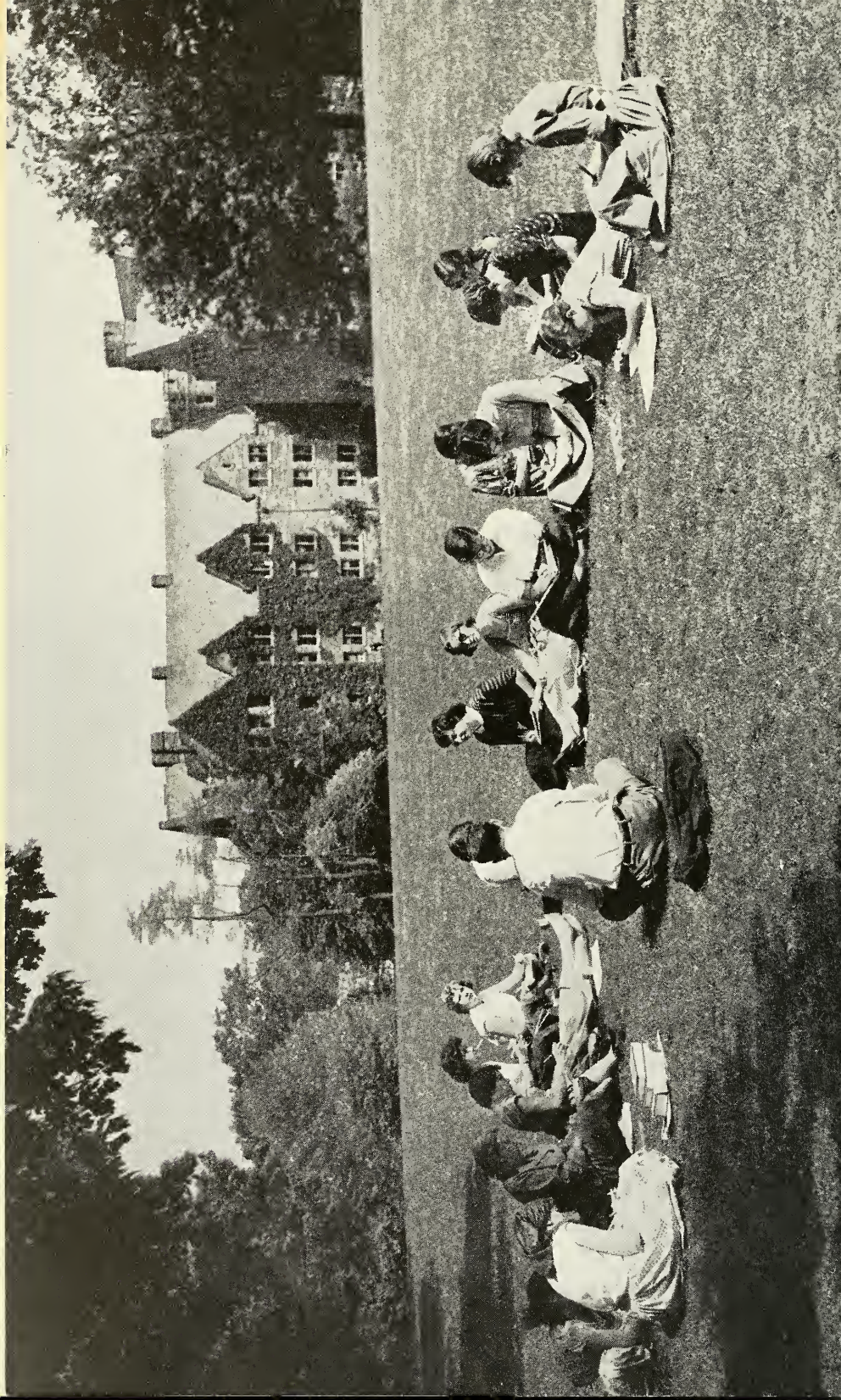
1957							1958							1959						
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DECEMBER							JUNE							DECEMBER						
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BRYN MAWR

BRYN MAWR

COLLEGE CALENDAR

THE GRADUATE SCHOOL 1958-1959

Bryn Mawr College Calendar

THE GRADUATE SCHOOL

ISSUE FOR THE SESSION OF

1958 • 1959

/

JULY 1958

Volume LI

Number 2

College Calendar

The Graduate School 1958-1959

FIRST SEMESTER

1958

September 25. Graduate Center open to resident graduate students. (First meal: breakfast September 26)

September 26. Registration period for graduate students begins

September 29. Work of the 74th academic year begins at 8:45 A.M.

October 4. Registration period for graduate students ends

October 18. Spanish and Italian examinations for undergraduates, M.A. and Ph.D. candidates

Statistics examinations for M.A. candidates

October 25. German examinations for undergraduates, M.A. and Ph.D. candidates

November 1. Russian examinations for undergraduates, M.A. and Ph.D. candidates

November 8. French examinations for undergraduates, M.A. and Ph.D. candidates

November 26. Thanksgiving holiday begins after last class

December 1. Thanksgiving holiday ends at 9 A.M.

December 18. Christmas vacation begins at 12:45 P.M.

1959

January 6. Christmas vacation ends at 9 A.M.

January 10. Spanish and Italian examinations for Seniors conditioned, M.A. and Ph.D. candidates

Statistics examinations for M.A. candidates

January 16. Last day of lectures

BRYN MAWR COLLEGE CALENDAR. Published December, July, August and November by Bryn Mawr College, Bryn Mawr, Pa.

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- January 17.* German and Russian examinations for Seniors conditioned, M.A. and Ph.D. candidates
- January 19.* Collegiate examinations begin
- January 24.* French examinations for Seniors conditioned, M.A. and Ph.D. candidates
- January 28.* Registration period for graduate students begins
- January 29.* Collegiate examinations end

SECOND SEMESTER

- February 2.* Work of the second semester begins at 9 A.M.
- February 7.* Registration period for graduate students ends
- March 26.* Spring vacation begins after last class
- April 7.* Spring vacation ends at 9 A.M.
- April 10.* Ph.D. dissertations in all fields except experimental science and mathematics must be submitted to the Graduate School office
- April 11.* Spanish and Italian examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1960
- April 18.* German examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1960
- April 25.* Russian examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1960
- May 1.* Ph.D. dissertations in experimental science and mathematics must be submitted to the Graduate School office
- May 2.* French examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1960
- May 9.* Statistics examinations for M.A. candidates for 1960
- May 15.* Last day of lectures
- May 18.* Collegiate examinations begin
- May 29.* Collegiate examinations end
- June 2.* Conferring of degrees and close of the 74th academic year

1958	1959	1960
S M T W T F S	S M T W T F S	S M T W T F S
JULY	JANUARY	JANUARY
... 1 2 3 4 5	... 1 2 3	... 1 2
6 7 8 9 10 11 12	4 5 6 7 8 9 10	3 4 5 6 7 8 9
13 14 15 16 17 18 19	11 12 13 14 15 16 17	10 11 12 13 14 15 16
20 21 22 23 24 25 26	18 19 20 21 22 23 24	17 18 19 20 21 22 23
27 28 29 30 31 ...	25 26 27 28 29 30 31	24 25 26 27 28 29 30
		31 ...
AUGUST	FEBRUARY	FEBRUARY
... 1 2	1 2 3 4 5 6 7	.. 1 2 3 4 5 6
3 4 5 6 7 8 9	8 9 10 11 12 13 14	7 8 9 10 11 12 13
10 11 12 13 14 15 16	15 16 17 18 19 20 21	14 15 16 17 18 19 20
17 18 19 20 21 22 23	22 23 24 25 26 27 28	21 22 23 24 25 26 27
24 25 26 27 28 29 30		28 29 ...
31 ...		
SEPTEMBER	MARCH	MARCH
.. 1 2 3 4 5 6	1 2 3 4 5 6 7	... 1 2 3 4 5
7 8 9 10 11 12 13	8 9 10 11 12 13 14	6 7 8 9 10 11 12
14 15 16 17 18 19 20	15 16 17 18 19 20 21	13 14 15 16 17 18 19
21 22 23 24 25 26 27	22 23 24 25 26 27 28	20 21 22 23 24 25 26
28 29 30 ...	29 30 31 ...	27 28 29 30 31 ...
OCTOBER	APRIL	APRIL
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5 6 7 8 9 10 11	5 6 7 8 9 10 11	3 4 5 6 7 8 9
12 13 14 15 16 17 18	12 13 14 15 16 17 18	10 11 12 13 14 15 16
19 20 21 22 23 24 25	19 20 21 22 23 24 25	17 18 19 20 21 22 23
26 27 28 29 30 31 ..	26 27 28 29 30 ..	24 25 26 27 28 29 30
NOVEMBER	MAY	MAY
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2 3 4 5 6 7 8	3 4 5 6 7 8 9	8 9 10 11 12 13 14
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16 17 18 19 20 21 22	17 18 19 20 21 22 23	22 23 24 25 26 27 28
23 24 25 26 27 28 29	24 25 26 27 28 29 30	29 30 31 ...
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DECEMBER	JUNE	JUNE
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14 15 16 17 18 19 20	14 15 16 17 18 19 20	12 13 14 15 16 17 18
21 22 23 24 25 26 27	21 22 23 24 25 26 27	19 20 21 22 23 24 25
28 29 30 31 ...	28 29 30 ...	26 27 28 29 30 ...

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1. On leave of absence for the year 1958-1959.

2. On sabbatical leave for the year 1958-1959.

3. For semester I, 1958-1959.

4. On partial leave of absence for semester I, 1958-1959.

K. LAURENCE STAPLETON, A.B. (Smith College), *Professor of English and of Political Theory*

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1. On sabbatical leave for the year 1958-1959.

2. On sabbatical leave for Semester II, 1958-1959.

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- MURIEL JANET GAYFORD, M.S.F.A. (Washington University), *Lecturer in Medical Social Work*
- RENÉ N. GIRARD, PH.D. (Indiana University), *Visiting Lecturer in French*
- JOAQUÍN GONZÁLEZ-MUELA, PH.D. (University of Madrid), *Lecturer in Spanish*
- MARCEL MARC GUTWIRTH, PH.D. (Columbia University), *Visiting Lecturer in French*
- EDWARD B. HARPER, PH.D. (Cornell University), *Lecturer in Sociology and Anthropology on joint appointment with Haverford College*
- WILLARD F. KING, PH.D. (Brown University), *Lecturer in Spanish*
- VICENTE LLORENS, *Licenciado en Filosofía* (University of Madrid), *Visiting Lecturer in Spanish for Semester II*
- MARIANNE W. MARTIN, M.A. (Bryn Mawr College), *Lecturer in History of Art*
- ETHEL W. MAW, M.S. (University of Pennsylvania), *Part-time Lecturer in Education*
- SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director of the Phebe Anna Thorne School and Part-time Lecturer in Education*
- LOUIS SOLOMON, PH.D. (Harvard University), *Lecturer in Mathematics*
- RUTH OLIVER STALLFORT, M.S. (Simmons College School of Social Work), *Lecturer in Psychiatric Social Work*
- EDWARD TIRYAKIAN, PH.D. (Harvard University), *Visiting Lecturer in Sociology*
- ANNA TERESA TYMIENIECKA, PH.D. (University of Fribourg), *Lecturer in Philosophy*
- JEANNE L. WERTTZ, PH.D. (University of Pennsylvania), *Part-time Lecturer in Social Research*
- MAXINE WOOLSTON, PH.D. (Radcliffe College), *Part-time Lecturer in Economics*

- BARBARA CROSS, PH.D. (Radcliffe College), *Instructor in English*
- HOPE K. GOODALE, M.A. (Bryn Mawr College), *Part-time Instructor in Spanish*
- RAMONA T. LIVINGSTON, A.B. (William Jewell College), *Instructor in English*
- MARIE MORISAWA, M.A. (Wyoming University), *Instructor in Geology*
- MARGARET C. PEARCE, B.S. (University of Minnesota), *Part-time Instructor in English*
- HERTA STEPHENSON (University of Lausanne), *Part-time Instructor in German*
- ROBERT A. WALLACE, B.A. (Harvard University), *Instructor in English*
- MONIQUE BOLDRINI, *Lic. d'Anglais* (University of Aix-Marseille), *Part-time Instructor-elect in French*
- KATHERINE A. GEFFCKEN, M.A. (Bryn Mawr College), *Part-time Instructor-elect in Latin*
- MARY MAPLES, M.A. (Bryn Mawr College), *Part-time Instructor-elect in History*
- ROSAMOND KENT SPRAGUE, PH.D. (Bryn Mawr College), *Part-time Instructor-elect in Greek*
- FRITZ JANSCHKA, *Akademischer Maler* (Akademie der Bildenden Künste), *Artist in Residence*
- CHARLES W. LUDINGTON, M.F.A. (Princeton University), *Director of Orchestra*
- ELIZABETH W. BANCROFT, A.B. (Vassar College), *Part-time Reader in English*
- ELIZABETH BOOTH, M.A. (Bryn Mawr College), *Part-time Assistant in Music*
- PRISCILLA CARNEY, A.B. (Wheaton College), *Part-time Assistant in Chemistry*
- ANNA CHAO, A.B. (Sweet Briar College), *Part-time Demonstrator in Biology*
- PATRICIA CROWSLEY, B.A. (Oxford University), *Part-time Assistant in Philosophy*

- ISABEL ECHIKSON, M.A. (Bryn Mawr College), *Part-time Assistant in Chemistry*
- JANICE GORDON, M.A. (Bryn Mawr College), *Part-time Assistant in Chemistry*
- PHOEBE S. LEBOY, A.B. (Swarthmore College), *Part-time Assistant in Biology*
- VERONICA MAHLSTEDT, B.A. (Hunter College), *Part-time Assistant in Geology*
- ADELAIDE W. MAUCK, A.B. (Bryn Mawr College), *Part-time Assistant in Chemistry*
- JANE ROYLE MCCONNELL, PH.D. (Bryn Mawr College), *Part-time Assistant in Biology*
- ANN S. MERRIAM, A.B. (Goucher College), *Part-time Assistant in Physics*
- MILLARD MIER, A.B. (Occidental College), *Part-time Assistant in Physics*
- SUE NUTTALL, A.B. (St. Lawrence University), *Part-time Assistant in Anthropology*
- SUZANNE PETERSON, B.A. (Wilson College), *Part-time Assistant in Chemistry*
- DORIS ANN REINOEHL, M.S. (Pennsylvania State University), *Part-time Demonstrator in Biology*
- DOROTHEA JENKINS RHEA, M.A. (Bryn Mawr College), *Part-time Assistant in Statistics*
- BRUNILDE SISMONDO, PH.D. (Bryn Mawr College), *Curator of Slides and Part-time Assistant in Classical Archaeology*
- WANDA SPRINGER, A.B. (Oberlin College), *Part-time Demonstrator in Biology*
- MARTHA ELAINE WILLIAMS, M.A. (Bryn Mawr College), *Part-time Assistant in Philosophy*

Officers of Administration

- MARIAN CARTER ANDERSON, B.S. (Simmons College), *Recorder of the College*
- CAROL BIBA, A.B. (University of Wisconsin), *Director of Public Information*

LOUISE HODGES CRENSHAW, A.B. (Bryn Mawr College), *Director of the Bureau of Recommendations*

PAUL W. KLUG, C.P.A., B.S. (Temple University), *Comptroller*

CHARLOTTE BRANDON HOWE, M.A. (Radcliffe College), *Director of Halls and Head Warden*

CLARISSA WARDWELL PELL, *Executive Director of the Resources Committee*

HORACE T. SMEDLEY, *Superintendent of Buildings and Grounds*

Library

JANET MARGARET AGNEW, B.L.S., M.A. (University of Manitoba), *Head Librarian*

JANE WALKER, B.S. (Simmons College), *Head of Cataloguing Department*

ETHEL W. WHETSTONE, A.B., A.B.L.S. (University of North Carolina), *Head of Circulation Department*

SARAH C. BENHAM, A.B., M.S.L.S. (Western Reserve University), *Assistant in Cataloguing Department*

DOROTHY V. McGEORGE, A.B., B.S.L.S. (Drexel Institute), *Part-time Assistant in Acquisitions Department*

PAMELA G. REILLY, A.B., M.S.L.S. (Drexel Institute), *Assistant in Circulation Department*

Physical Education

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

ETHEL GRANT, *Instructor in Physical Education*

GLORIA SCHMIDT, M.A. (New York University), *Instructor in Physical Education*

JANET A. YEAGER, *Instructor in Physical Education*

Foreign Students

MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*

Halls of Residence

NANCY ELLEN BLACKWOOD, A.B. (Bryn Mawr College), *Warden of Pembroke East*

PATRICIA ONDERDONK, A.B. (Bryn Mawr College), *Warden of Denbigh*

FRANCES SHIRLEY, M.A. (Bryn Mawr College), *Warden of Merion*

MARGARET BECKER SMITH, A.B. (Goucher College), *Warden of Rhoads*

MONIQUE BOLDRINI, *Lic.d'Anglais* (University of Aix-Marseille), *Warden-elect of Wyndham*

JEAN ELDER, B.A. (University of Toronto), *Senior Resident-elect of the Graduate Center*

MILNOR ALEXANDER, M.A. (University of Pennsylvania), *Warden-elect*

MARGARET HOOEY, B.A. (University of Toronto), *Warden-elect*

DAPHNE KNIGHTS, B.A. (Victoria University), *Warden-elect*

Health

ELIZABETH HUMESTON, M.D. (Cornell University), *College Physician*

FREDERIC C. SHARPLESS, M.D. (University of Pennsylvania School of Medicine), *General Consultant*

ISAAC SHARPLESS, M.D. (University of Pennsylvania School of Medicine), *Assistant College Physician*

HOWARD B. SMITH, M.D. (Jefferson Medical College), *Consulting Psychiatrist*

RICHARD G. LONSDORF, M.D. (University of Pennsylvania School of Medicine), *Consulting Psychiatrist*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

Phebe Anna Thorne School

SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director*

EVE BRILL, B.S. (Teachers College, Columbia University),
Teacher

GEORGIANNA ENGSTROM, A.B. (University of Minnesota), *Assistant Teacher*

Child Study Institute

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania),
Director

LOIS R. TABER, A.B. (Mt. Holyoke College), *Social Caseworker*

ELIZABETH WHEELER, M.S.S. (Bryn Mawr College), *Social Caseworker*

CORNELIA T. BIDDLE, A.B. (Bucknell University), *Part-time Social Caseworker*

ELSIE WAELDER, M.S.W. (Western Reserve University), *Part-time Social Caseworker*

LELIA BRODERSEN, M.A. (Temple University), *Psychologist*

ELEANOR BEATTY, M.A. (George Washington University), *Psychologist*

ANITA GRINNELL, M.S. (University of Pennsylvania), *Part-time Psychologist*

CONSTANCE GRANT, B.S. (University of Pennsylvania), *Remedial Reading Teacher*

MARGARET C. PEARCE, B.S. (University of Minnesota), *Remedial Speech Teacher*

JAMES G. DELANO, M.D. (Washington University Medical School), *Consulting Psychiatrist*

MARGARET DEALY, M.D. (Cornell University Medical College),
Consulting Psychiatrist

HERMAN STAPLES, M.D. (Hahnemann Medical College), *Consulting Psychiatrist*

MARY LOUISE LLOYD, M.A. (Yale University), *Psychological Assistant*

Introduction

BRYN MAWR COLLEGE was founded as an institution of higher education for women by Dr. Joseph Taylor of Burlington, New Jersey, a member of the Society of Friends. The charter was granted by the Commonwealth of Pennsylvania in 1880. The College opened in 1885 with the first Graduate School for women. The first Ph.D. was awarded in 1888, a year before the A.B. was conferred on students of the first undergraduate class. The Graduate School has been open since the thirties to men as well as women.

Dr. James E. Rhoads was the first President of the College, Dr. M. Carey Thomas, the second and Dr. Marion Edwards Park, now President Emeritus, the third. President McBride took office in 1942. In 1952, on the retirement of Dr. Lily Ross Taylor, Dr. Eleanor A. Bliss was appointed Dean of the Graduate School.

Graduate study is offered in every fully organized department. The College provides special opportunities to graduate students for study and research in small seminars under the guidance of members of the faculty. Graduate work leading to the M.A. and the Ph.D. is offered in the fields of ancient and modern languages and literatures, art and archaeology, history and social sciences, philosophy, mathematics, psychology and the natural sciences. A two-year course in Social Work and Social Research leads to the degree of Master of Social Service.

The Graduate School

ADMISSION

THE GRADUATE SCHOOL is open to qualified graduates in liberal arts, men and women, from colleges or universities of acknowledged standing. Application for admission, to be made to the Dean of the Graduate School, Bryn Mawr College, Bryn Mawr, Pennsylvania, should be supported by official transcripts of the student's full academic record and by letters from the dean and from two or more professors of the applicant's undergraduate college.

Admission to graduate courses is under the jurisdiction of the various departments which may, at their discretion, require students whose preparation is insufficient to pursue certain introductory courses before being enrolled in a graduate course. Admission to the Graduate School does not automatically qualify a student to become a candidate for an advanced degree. Students whose courses of study meet the prerequisites may on application to the Graduate Committee be enrolled as candidates for the Degrees of Doctor of Philosophy, Master of Arts or Master of Social Service.

Graduate Record Examination. The Bryn Mawr Graduate School recognizes as contributory evidence of the qualifications of a student for admission a record of attainment in the Graduate Record Examination as prepared and administered by the Educational Testing Service. The examination is a convenient method by which a student may supplement transcript records. Applicants for admission to the Graduate School who wish to take the examination should apply directly to the Graduate Record Examination, P.O. Box 592, Princeton, N. J., where full information may be secured and arrangements for taking the test may be made.

REGISTRATION

Every graduate student must register for courses at the Office of the Dean of the Graduate School if possible in the opening week of the semester, certainly within the first two weeks. Permission to take advanced undergraduate and graduate courses must be secured from the various departments. Changes in registration must be approved by the Dean.

Program of Study

THE GRADUATE PROGRAM is planned to give students a small number of hours in the seminar (often not more than six) and ample time for individual work under the guidance of members of the faculty. Graduate students work in seminar rooms and laboratories close to the offices of members of the faculty and have abundant opportunity for conference and discussions.

Seminars and graduate courses are described under the announcements of the departments. They are open to properly qualified first-year as well as more advanced graduate students.

Three units of graduate work constitute a full program. Instead of a seminar or graduate course, students may take for graduate credit:

1. A supervised unit of graduate work, equivalent to a seminar or graduate course, planned and examined by an instructor but carried on independently by the student. Such work may consist of reading with assigned reports, research with results submitted or a combination of both.
2. An advanced undergraduate course with additional work. Advanced undergraduate courses are sometimes elected to complete the student's prerequisites or to provide essential training in an allied field. One such course, accompanied by additional work, may, with the approval of the major department, be included in the M.A. program. Advanced undergraduate courses and certain second-year and elective courses are included with the graduate courses in this Calendar. A full list of undergraduate courses is available in the Calendar of Undergraduate Courses.

Prerequisites. The prerequisites for graduate courses are established by the various departments. In special cases, with the

approval of the department concerned, work in related subjects may be accepted in lieu of the stated prerequisites.

Grading. Two grades are given for graduate work, Satisfactory and Unsatisfactory. Occasionally extensions may be given for the completion of work. However, there will be no extension beyond November 1st of the year following that in which the work was due. After November 1st the work will be graded Unsatisfactory or the term Incomplete will remain permanently on the record.

Journal Clubs and Colloquia. In many departments the instructors and graduate students meet from time to time to discuss current research or to review recent publications in their field of study. Students will be notified by their respective departments of arrangements for their Colloquia or Journal Clubs.

RECIPROCITY WITH THE UNIVERSITY OF PENNSYLVANIA

Courses at the University of Pennsylvania are available to graduate students at Bryn Mawr College. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr. The University charges a general fee of \$2.50 for the use of the Library, a \$5.00 library deposit, which is refundable, and fees for lateness.

The Degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service

BRYN MAWR COLLEGE awards the degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The course of study for the degree of Doctor of Philosophy at Bryn Mawr College is designed to prepare the candidate for a professional career as a scholar. The course offers the student the opportunity to acquire a broad general background in the chosen fields of knowledge and practice in research in these fields. The degree is awarded after the student's general knowledge and ability in research have been tested by examination and by a dissertation.

The candidate for the Ph.D. degree should have ability of high order, intellectual curiosity and critical judgment, independence, a broad general education, fundamental training in the major and allied fields and the determination needed to carry through an exacting program.

The general requirements for the Ph.D. degree, to which should be added the specific regulations of the various departments, are:

1. An undergraduate preparation in major and allied fields which is satisfactory to the departments concerned and to the Graduate Committee.

2. A course of study requiring a minimum, which will usually be exceeded, of three full years of graduate work in major and allied fields; two of these years, or for holders of the A.B. degree from Bryn Mawr College one, must be spent in the Graduate School of Bryn Mawr College. Candidates are strongly advised to complete at least seven units of graduate work including five graduate courses; there are, however, no formal course requirements for those who have been accepted as candidates for the degree.

3. The acceptance of the student as a candidate by the Director of her work, by members of her major department and by the Graduate Committee.

4. A reading knowledge of two modern languages, tested by written examinations in the translation of texts in the field of the major subject.* These examinations must be passed before the student takes the Preliminary Examination.

5. A satisfactory Preliminary Examination in the candidate's major and allied fields. This examination, consisting of several written examinations, and, at the option of the department, an oral examination, is intended to test the candidate's general knowledge of the fields rather than familiarity with particular courses.

6. The preparation of a dissertation judged to be a contribution worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject. It must contain new material, results or interpretations.

7. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

8. The publication of the dissertation in whole or in part. Microfilming is accepted as a method of publication.

THE DEGREE OF MASTER OF ARTS

The degree represents the completion of a coordinated program of graduate work which, for a well-prepared candidate, requires a minimum of a full year of graduate study. Work for the degree may be spread over several academic years which need not be in succession but must be included in a five-year period. Only courses taken at Bryn Mawr College are credited for the degree.

Prerequisites. The prerequisite for the M.A. degree is an A.B. degree or its equivalent from an American college of recognized standing or a degree or certificate of the same standard from a foreign university. The preparation must include such under-

* See the statements under the Departments for the language requirements of the Departments. For the Ph.D. in Social Work only one modern language is required.

A student whose mother tongue is not English may, with the approval of her department, offer English as one of the modern languages. (She may not offer her own language.)

graduate work in the candidate's major subject and allied fields as various departments shall require.

Application. The candidate must apply for the degree in the department of the major work and must receive the endorsement of the department for the program of work. The application and the program endorsed by the major department must be submitted to the Dean of the Graduate School not later than December first of the academic year in which the candidate wishes to take the degree.

Language Requirement. A reading knowledge of two modern languages is in general required of all candidates.* Students in Economics, Education and Sociology may offer Statistics instead of the second language. In Psychology, Statistics is required and the language requirement is therefore reduced to one. Candidates whose major work is in a modern language must offer a reading knowledge of two other languages.

Holders of the Bryn Mawr A.B. degree who have as undergraduates passed examinations in the languages required for the M.A. degree by their major departments are not required to be re-examined unless five years have elapsed between the time when the A.B. language examination was passed and the date set for the M.A. language examination.

A student whose mother tongue is not English may offer English for one of these languages. (She may not offer her own language.)† The requirement in English shall be met by a certificate from the student's major department that her English is adequate or by a special examination given by her department not later than November in the academic year in which the degree is to be taken. This special regulation for foreign candidates does not prevent a department from refusing to admit students to any seminar for which their language equipment is not satisfactory.

The language requirement is met by passing one of two types of examination, hereinafter referred to as the general and the special types. (1) General type: a test of reading at sight and with a dictionary which is given by Bryn Mawr College to candi-

* See the statements under the Departments for the departmental language requirements.

† Foreign students in the Department of Education may offer Statistics and English; in Psychology, Statistics being obligatory, the language requirement may be satisfied by English alone.

dates for the A.B. degree. (2) Special type: a test set by the major department in reading, at sight and with a dictionary, technical material in the candidate's field such as is required of Ph.D. candidates at Bryn Mawr College. Departments vary in the type of examination required.

Examinations in languages, and in the techniques which may be substituted for one language, will be held three times each year, in October, January and April. At least one of the examinations must be taken not later than the October period of the academic year in which the degree is to be received. All departments except Biology, Classical Archaeology, Mathematics and Spanish require that at least one shall be passed by that time. No candidate may receive the degree in any academic year unless she has passed both examinations by the January examination period, or, in special cases approved by the major department and the Graduate Committee, has been permitted to postpone passing one until the April examination period.

Students are expected to prepare for these examinations before entering upon the work for the M.A. degree and are strongly urged to take both examinations in October. *Students who do not meet the two requirements in languages and techniques in October may find it impossible to carry a full program and complete the requirements for the degree in one year.*

Program of Work. The candidate's program must include three units of work: (1) one seminar or graduate course; (2) a second seminar or supervised unit of graduate work; (3) a third seminar or an undergraduate course recommended by the major department. If undergraduate courses are included in this last unit, they must be supplemented by organized individual work. Under certain circumstances advanced undergraduate courses in science can be counted as seminars, subject to the approval of the department and the Dean of the Graduate School. Candidates may take their three units of work in one major department or two in a major department and one in an allied field. Candidates whose major department conducts a Journal Club or Colloquium are expected to include it in their registration.

Special Field. The candidate shall, in consultation with the major department, select a special field for the M.A. paper and the Final Examination. It is expected that this field will normally relate to one of the seminars or units of graduate work in the candidate's program.

Final Requirements.

1. *Courses.* Before the Final Examination period, candidates must have completed to the satisfaction of their instructors the courses registered for the degree. No candidate will be admitted to the Final Examination if one of these courses is reported as unsatisfactory.

2. *Paper in the Special Field of the Student's Major Subject.* Every candidate must present a paper in the special field. The paper may take the form of a report on a special piece of investigation carried on throughout the year or during a definite period, or of a problem which is assigned to be completed during a specified limit of time.

3. *An Examination.* Every candidate must pass a Final Examination which shall test her ability to place the special field in the general background of the major subject.

The Final Examination may not be taken until

- (1) the language requirements have been met;
- (2) the three units have been reported as satisfactory;
- (3) the paper in the special field has been accepted.

THE DEGREE OF MASTER OF SOCIAL SERVICE

The Department of Social Work and Social Research provides a two-year program of study leading to the degree of Master of Social Service.* The program for the professional degree of M.S.S. is designed to prepare men and women for Social Casework, Social Group Work, Community Organization and Social Research. Two academic years of full-time study are required. The degree represents the completion of a coordinated program of courses and field work. In the program in social casework, provision is made for concentration in the following specific fields: Child Welfare, Family Welfare, Medical and Psychiatric Social Work.

Prerequisites. The prerequisite for the M.S.S. degree is an A.B. degree or its equivalent from an American college of recognized standing, or a degree or certificate of the same standard from a foreign university. An undergraduate major in one of the social sciences is usually required, although in exceptional cases this

* The M.A. degree is not offered in this Department.

requirement is waived. There are no language requirements for the M.S.S. degree.

Program of Work. The basic first-year program is the same for all students. The required courses include:

- Normal Growth and Behavior
- Pathology in Growth and Behavior
- The Social Services
- Legislation for Social Security
- Social Group Work I
- Social Research I
- Social Casework I, including Field Work

The courses in the second year are in part determined by the field of concentration of the student, that is, social casework, social group work, community organization or social research, and will be selected from the following:

- Community Organization*
- Patterns of Behavior
- Social Policy*
- Community Planning for Child Welfare
- International Aspects of Social Welfare
- Statistics
- Social Casework II, including Field Work
- Social Research II, including Field Work
- Social Group Work II, including Field Work
- Community Organization II, including Field Work

Requirements for Degree. Candidates for the M.S.S. degree must have completed a minimum of six units, including designated field work; they must prepare a Master's thesis and pass a Final Examination which tests their ability to place their special fields in the general background of social work.

* Required of all second-year students.

Residence and Fees

THE GRADUATE CENTER

RESIDENCE for forty-five graduate women is provided in the Graduate Center which lies at the north end of the campus, about an eight-minute walk from the Library. There is a separate room for each student; meals and health service are included in the residence charge.

Besides housing forty-five women students the Graduate Center is the headquarters of the Graduate Club, the nucleus of the social life of the Graduate School. The Center's public rooms—a large living room and the Manning-Smith recreation room—are available to all members of the Club. The dining room, which seats sixty, is open to non-resident students living outside the Center who wish to lunch or dine there. For the residents there are smoking rooms and tea pantries. The bedrooms are fully furnished except for curtains. Bed linen, including blankets, is provided but students should bring their own towels. Because of College fire regulations, smoking is not permitted in the bedrooms.

Application for a room should be made as early as possible. A room contract, which will be sent upon request, must be signed and returned with a deposit of ten dollars to the Dean of the Graduate School. The amount of the deposit will be deducted from the residence fee; it will not be refunded under any circumstances.

A student who has reserved a room in the Graduate Center will be held responsible for the residence charge unless she sends notice of withdrawal, in writing, to the Dean of the Graduate School before September first. Appropriate reduction or remission of the residence fee will be made if the College is able to reassign the room to another student not already accommodated in the Center. The student herself is not entitled to dispose of the room she leaves vacant. Appropriate reduction or remission will be made for that portion of the residence fee which represents the cost of food. A student in residence who is absent from the College for six weeks or more because of illness will also receive a proportionate reduction for food.

The regular charge for residence (room, board and health service) for graduate students is \$950 a year, payable one half early in the first semester and the other half early in the second semester.

Residence in the Graduate Center is for the academic year only—from the opening of college until Commencement Day. All college residence halls are closed during the Christmas vacation but accommodations in the neighborhood can usually be secured by graduate students who wish to continue their work. During the spring vacation one hall of residence is kept open and graduate students may occupy rooms in it at a fixed rate. Baggage will not be accepted at the College before September 15th. It should be sent prepaid, addressed to the Graduate Center.

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

FEES

The tuition fee for graduate students is \$800 a year, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work the fee for each course, seminar, or unit of supervised work, is \$300 a year or \$150 a semester.

Fees for auditors are the same as for students registered in courses for credit.

All students taking courses which require field work in the Department of Social Work are charged a fee of \$10 a semester for each such course taken during the academic year and a fee of \$10 for summer field work. This fee covers a part of the expenses of field supervision. In addition students are required to meet their travelling and incidental expenses while working in the field during the academic year and vacations.

Students whose fees are not paid before November first in the first semester and before March first in the second will not be permitted to continue in residence or to attend their classes. No reduction of the tuition fee will be made on account of absence or dismissal or for any other reason.

The graduation fee for Doctors of Philosophy, Masters of Arts, and Masters of Social Service is \$20.00.

The Office of the Recorder will supply on request one transcript of the record of each graduate student free of charge. For additional transcripts a charge of \$1.00 each will be made.

SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

Regular

Tuition Fee	\$800
Residence (including health service)	950

Contingent

Dispensary Fee (for non-resident students)	15
Social Work Field Work Fee	20
Graduation Fee	20
Expenses, Christmas and spring vacations, commuting	variable

GRADUATE CLUB

All graduate students residing in the Center are members of the Graduate Club and non-resident students may become members. The organization of the life of the graduate students in all matters not purely academic or affecting hall management is in the hands of the Club. The President of the Graduate Club is a member of the College Council, a non-legislative body which meets periodically to discuss matters concerning the College as a whole.

Fellowships and Scholarships

THE COLLEGE awards, on the basis of academic excellence, about sixty graduate scholarships and fellowships to women. Some awards are also open to men. The various types of awards are described below.

APPLICATION

Applications for fellowships and scholarships should be made to the Dean of the Graduate School and must be filed complete not later than March first preceding the academic year for which they are desired. The documents are the same as for admission. Blanks are forwarded to all applicants by the Graduate Office. Awards are announced each year on April first and recipients should signify their acceptance or refusal by April fifteenth. Original papers and photographs, sent by applicants in support of their applications, will be returned only if postage is enclosed for that purpose, or specific instructions are given for return by express collect. Testimonials and letters from professors and instructors are filed for reference.

Completed applications for scholarships for foreign women must be received not later than February first. The applicants will be informed of the results early in March.

FELLOWSHIPS

Twenty-two Fellowships, value \$2050 each, are offered annually in Biology, Chemistry, Classical Archaeology, Economics, Educational Psychology, English, Geology, German, Greek, History, History of Art, Latin, Mathematics, Mediaeval Studies (the Howard Lehman Goodhart Fellowship), Philosophy, Physics, Political Science (the Justus C. Strawbridge Fellowship), Psychology, Romance Languages (two fellowships), Social Work (the Carola Woerishoffer Memorial Fellowship), and Sociology and Anthropology. They are awarded on the basis of merit and are open to American and Canadian women who are graduates of colleges of good standing, and who have completed at least one full year of graduate work.

Fellows who continue their studies at the College after the expiration of their fellowships may, by a vote of the Directors, receive the rank of Fellow by Courtesy.

GRADUATE SCHOLARSHIPS

Twenty Graduate Scholarships, value \$1350 each, are offered annually for work in any department of the Graduate School to women who are graduates of colleges of good standing.

Resident Scholarships. Scholars in their first year at Bryn Mawr are required to live at the Graduate Center. Others may elect to do so. The stipend covers tuition and part of the residence charges.

Non-Resident Scholarships. Scholars who have had a full year at Bryn Mawr may live off campus. Tuition plus Dispensary fees will be deducted from the stipend and the balance paid the student in November and March.

TUITION SCHOLARSHIPS

Six scholarships providing free tuition are available to students whose homes are in the neighborhood.

SCHOLARSHIPS FOR FOREIGN WOMEN

Ten scholarships are especially designated for foreign women who have excelled in their university studies. Applicants must have had three or four years of university training. Each scholarship carries a stipend of \$1750 which covers full tuition and board and lodging in the Graduate Center during the academic year. (Vacations are not included and students will need to provide additional funds for these and for other non-college expenses.) A student who holds a scholarship for a second year may live off campus if she prefers. Scholarship holders are expected to carry a full program of graduate work and to attend regularly the courses for which they are registered. At times an advanced undergraduate course may meet the student's needs better than a graduate seminar; in that case she will make extra contributions in order to bring the work to the graduate level. Most of the formal work, however, is given in seminars. These are best described as small discussion groups in which the students, as well as the instructor, actively participate. It is essential, therefore, that the student be able, not only to read and write English, but to understand it and speak it fluently. For a full statement of the graduate program and requirements, reference should be made to the preceding pages and to the departmental announcements.

The Marguerite N. Farley Scholarships for Foreign Women. Five foreign scholarships, of the value of \$1750, are offered to women from any country, outside the United States and Canada.

A Special British Scholarship, of the value of \$1750, is reserved for a candidate from Great Britain sponsored by The English-Speaking Union.

Special Foreign Scholarships for French, German, Italian and Spanish, of \$1750 each, have been established for countries whose languages form part of the Bryn Mawr curriculum. Holders of these scholarships are asked to devote four or five hours a week to supervised teaching or other assistance in the appropriate language department. The Special Scholarship for French has been named in memory of Marcelle Pardé who was a member of the French Department of Bryn Mawr College between 1919 and 1929.

SCHOLARSHIPS AND FELLOWSHIPS UNDER THE PLAN FOR THE COORDINATION OF THE SCIENCES

The several departments of the natural sciences and mathematics administer a fund for the Coordination of the Sciences, given to the College by the Carnegie Corporation of New York. Its purpose is to encourage and facilitate teaching and research in overlapping fields of science, such as biochemistry, biophysics, geochemistry, geophysics, psychophysics.

Usually three scholarships of the value of \$1350 are offered to qualified students who have had undergraduate training in two or more of the natural sciences and who wish to continue study in some borderline field. Scholarships are, however, also awarded to those students who plan to specialize in only one science, but feel the need for broadening their knowledge in some related science.

Since many students do not have the time to obtain an adequate preparation in two or more sciences during their undergraduate training, provision is also made for a so-called "Fifth Year." Scholarships are offered to those students who want to broaden their undergraduate preparation in several sciences. Courses taken during the Fifth Year will usually consist of undergraduate courses, and such a program, therefore, does not lead to a higher degree in the first year.

Two fellowships of the value of \$2050 each in the same fields are also offered to candidates who, in addition to undergraduate training, have had at least a year of graduate work in science.

These Scholars and Fellows will pay the regular tuition of \$800 a year. For residence in the Graduate Center which is allowed if the candidate so desires and if room is available, an additional \$950 will be charged.

Occasionally a post-doctoral Research Fellowship is offered to a candidate who wishes to work in a borderline field, as outlined above, or one who, while working in one science, wants to utilize methods or tools of another science for the specific research problem.

The scholarships and fellowships under the Plan for the Coordination of the Sciences are open to men as well as women, but among candidates of equal ability preference is given to women.

The Lillia Babbitt Hyde Foundation Scholarship, of \$1450, in science and pre-medical studies, to be held during the first year of graduate work, is open to students of Biology, Chemistry and Physics. Only applicants for resident scholarships for the first year of graduate work in those fields will be considered for this scholarship. The award is made on the recommendation of the three departments.

The Helen Schaeffer Huff Memorial Research Fellowship. This fellowship is awarded for a year of research work in Physics or Chemistry at Bryn Mawr College. Candidates must be women who have demonstrated their ability for research. If other qualifications are equal among a number of candidates, preference will be given to a woman whose field of research overlaps the fields of Chemistry and Physics. This fellowship is normally awarded to a post-doctoral candidate to enable her to continue her research program. In such cases the stipend will be \$3200. In exceptional cases, candidates engaged in important research who have not completed the work for the doctorate will be considered. For such students the stipend will be less, the amount to be determined on the basis of the candidate's qualifications.

The Helen Schaeffer Huff Memorial Research Fellow has no duties except those connected with her own research, but she may arrange with the department in which she is working to do a small amount of teaching if she so desires. The holder of this fellowship may, if she wishes, live in the Graduate Center.

SOCIAL WORK AND SOCIAL RESEARCH

The Carola Woerishoffer Fellowship in Social Work and Social Research, of \$2050, is offered annually to a student in Social Work. See p. 34.

The Carola Woerishoffer Scholarship in Social Work and Social Research, of \$1350, is offered annually to a student in the Department of Social Work and Social Research.

Agency Fellowships and Scholarships. A number of scholarships ranging in value from \$500 to \$2400 are offered by various agencies in Philadelphia and vicinity to second-year graduate students, men and women, who wish to be candidates for the degree of Master of Social Service. These agency scholarships and fellowships frequently call for field work placement in the agency giving the grant, and in some cases require an agreement relative to employment for one year following the holding of a grant.

Federal Stipends. The United States Public Health Service offers traineeships of \$1800 for first-year students, and \$2000 for second-year students, both men and women. The holders of such stipends must have career objectives in psychiatric social work.

The Office of Vocational Rehabilitation offers traineeships of \$1800 and \$2000 for first- and second-year students respectively. Holders of such stipends must have career objectives in rehabilitation.

Traineeships of \$2800 for the third year and \$3400 for the fourth year of study are also available from the United States Public Health Service to advanced students who meet certain requirements and are beginning work for the Ph.D. Application to the Department for such traineeships is necessary by November first of the year preceding the proposed year of study.

Both local agency stipends and Federal traineeships are awarded to the student by the Department.

The Alumni Association of the Department of Social Work and Social Research usually provides a tuition scholarship open to either first or second year students.

Susan M. Kingsbury Research Assistantship, a research assistantship of the value of \$1200 with remission of tuition, will be granted to an advanced student, preferably a candidate for the degree of Doctor of Philosophy, who from either training or

experience has knowledge of methods and techniques in social research. The holder of the Assistantship will give half time to the research of the Department, and half time to study and is not permitted to hold any other paid position.

TRAVELLING FELLOWSHIPS

The Fanny Bullock Workman Fellowship, value \$2000, for a year of study or research abroad or in special cases in the United States, was established in 1927 by bequest of Fanny Bullock Workman and by gift of her husband, Dr. W. Hunter Workman. It is awarded to a candidate for the degree of Doctor of Philosophy at Bryn Mawr College who could not have the advantages of such a year without assistance. At the discretion of the Faculty, the fellowship for any one year may be divided between two students, or the same student may hold the fellowship for more than one year.

The Anna Ottendorfer Memorial Research Fellowship in Teutonic Philology and German Language and Literature, founded in 1907 by Mrs. Anna Woerishoffer of New York City in memory of her mother, is to be applied to the expenses of study and residence for one year at some German university. It is awarded annually to a candidate who has completed at least one year of graduate study at Bryn Mawr College, on the basis of evidence regarding her ability to conduct independent investigations in the fields of Teutonic Philology or German Literature. The choice of a university is determined by the holder's preference subject to the approval of the Faculty.

The Ella Riegel Fellowship or Scholarship in Classical Archaeology was founded in 1937 by bequest of Ella Riegel. It is awarded on the recommendation of the Department of Classical Archaeology and only to advanced students in this subject. It is given for study abroad but may, at the discretion of the Department, be used at Bryn Mawr College.

DUTIES OF FELLOWS AND SCHOLARS

All holders of fellowships and scholarships are required to carry a full program of graduate work. Fellows and Scholars at Bryn Mawr are expected to attend official functions of the College and assist in the conduct of examinations. Holders of fellowships may be asked to give about an hour and a half a week

to special work assigned by their departments, and are not permitted to accept any other appointments. Holders of scholarships may, with the approval of the Dean of the Graduate School, make their own arrangements to do a limited amount of paid work. Each Travelling Fellow is asked to present a written report of her work during her year on her fellowship. This report should be sent about the first of March to the Dean of the Graduate School for transmittal to the student's department.

GRADUATE PRIZE

The Susan B. Anthony Memorial Prize, value \$500, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered every two years to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic, or political position of women. The award is made by a committee of which the President of the College is chairman.

EMMY NOETHER FELLOWSHIP IN MATHEMATICS

The Emmy Noether Fellowship was founded by gifts from many donors in memory of Emmy Noether who came to Bryn Mawr College from Germany in 1933 and who died April 14, 1935. It is open to women in the United States and in foreign countries who are advanced graduate students of Mathematics. It is awarded by the Department of Mathematics in Bryn Mawr College, and may be used, subject to the approval of the Department, at any institution in the United States or in a foreign country.

GRADUATE ASSISTANTSHIPS AND DEMONSTRATORSHIPS

Assistantships or Demonstratorships, varying from one-half to one-third time and enabling the student to carry one or two units of graduate work with free tuition, are open to students in the Departments of Biology, Chemistry, Economics, Education, English, Geology, History, History of Art, Mathematics, Philosophy, Physics, Psychology, and Sociology and Anthropology. For further information candidates should consult the Department and see the departmental announcements issued each year.

From time to time research assistantships are available in certain departments, e.g., Physics and Psychology. These assistantships are noted each year on the departmental announcements. They carry a stipend and provide free tuition in the Graduate School.

GRANTS-IN-AID

Contributions to the Alumnae Fund by former graduate students have placed at the disposal of the Graduate Scholarships Committee a small fund from which grants-in-aid may be made. These grants, not to exceed \$300, are given on the basis of need to holders of scholarships to help them meet College expenses. Application forms may be obtained from the Graduate Office; they should be submitted by April 15th.

Loan Funds

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

The committee in administering this money follows a definite policy, designed to serve the best interests of the students concerned. Loans may be used for any purpose approved by the committee, who strongly recommend the borrowing of small sums to relieve undue financial pressure, or to meet special emergencies. As a rule, money is not loaned to students in their first semester of graduate work. Not more than \$500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed \$1500.

The terms under which money is loaned are as liberal as is consistent with business-like principles. While the student is in College no interest is charged; after the student leaves College the interest rate is two per cent. The entire principal must be repaid within five years from the time the student leaves College at the rate of twenty per cent each year.

Contributions to the Loan Fund may be sent to the Chairman of the Scholarships and Loan Fund Committee, Alumnae Office; The Deanery, Bryn Mawr, Pennsylvania. Students who wish to borrow from the Loan Fund may obtain application blanks for this purpose from the Alumnae Office.

The Mary Hill Swope Loan Fund was established June 1, 1945 by a gift of Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

1. The following order of preference shall be observed in awarding such loans:
 - a. To students coming from New Jersey.
 - b. To students coming from Missouri.

- c. To students coming from any other location who have had not less than one year of residence at the College.
2. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn Mawr College, or by a Committee appointed by her from time to time.
3. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.
4. These loans shall be used primarily to enable the exceptional student to continue her studies which otherwise would be prevented through lack of means.
5. In the awarding of the loans, the recipient should understand that if in after years she is in a position to do so, she is to repay to the income account of the Loan Fund the amount so loaned to her, with or without interest. It is to be understood that this is entirely a moral obligation upon the recipient.

MEMORIAL LOAN FUNDS

The Bertha Goldstein Memorial Loan Fund, the *Rachel Pflaum Memorial Loan Fund* and the *Ethel Rupert Loan Fund* are revolving funds from which, upon recommendation of the Department of Social Work and Social Research, a limited number of loans may be made to graduate students of Social Work and Social Research. Loans are made without interest and must be repaid within one year after completion of study at Bryn Mawr.

The Bureau of Recommendations

The College conducts a Bureau of Recommendations for alumnae, students, and former students. This Bureau offers an employment service for permanent, temporary, and part-time positions; and a vocational service for the student body, which includes vocational tests, assistance in choosing a vocation. It also acts as a clearing house for letters of recommendation for those who have registered with the Bureau. These letters will be sent, upon request, to prospective employers and other agencies.

Students of foreign citizenship are advised that government regulations severely limit their employment.

The Library

THE M. CAREY THOMAS LIBRARY now contains over a quarter of a million volumes. The Library has a good working collection in all fields in which graduate study is offered. The collection includes files and current numbers of about one thousand periodicals published in the United States and abroad. For the use of graduate students there are twelve seminar rooms and, in addition, a limited number of carrels in the stacks. The scientific libraries are described on page 46.

The open shelf system provides the maximum of free access to the stacks so that almost all books except those in the Rare Book Rooms are directly available to the students. The Reference Room and Periodical Room provide ready access to standard works of reference and current periodicals. There is a large reading room with individual desks.

Provision is made in the Quita Woodward Memorial Room for books for pleasure or recreational reading. This collection, numbering more than two thousand volumes, includes books in literature, art, religion, and current affairs as well as many of the classics.

In the two Rare Book Rooms unusual bibliographical items are shelved and displayed: early printed books, manuscripts, first editions, fine press books, and association copies. Exhibitions of the Library's own material and material lent by friends of the Library are displayed here at intervals during the academic year. Here also are incunabula numbering over nine hundred volumes, the gift of Howard L. Goodhart. This collection, known as the Marjorie Walter Goodhart Mediaeval Library and consisting mainly of philosophical and theological works printed in the 15th century, is outstanding among college library collections.

Other facilities available to graduate students are the rich resources in the libraries of the Philadelphia area. Through the services of the Union Library Catalogue at the University of Pennsylvania volumes in over 300 libraries within the area may be easily located. The Philadelphia Bibliographical Center and Union Library Catalogue has recorded over 3,500,000 titles in the region by which research workers are aided in bibliographical problems outside the scope of any one library. Through this

channel the great collections of the University of Pennsylvania, the Free Library of Philadelphia, the Historical Society of Pennsylvania as well as the Library Company of Philadelphia, the American Philosophical Society, the Franklin Institute, the Academy of Natural Sciences, the College of Physicians, Swarthmore College and Temple University are made available. Graduate students who wish to use other libraries for purposes of reference may secure letters of introduction from the Bryn Mawr librarian.

Three College cooperation also augments the facilities of the M. Carey Thomas Library. In the main catalogue are filed author cards for books in the collection of Haverford College, facilitating the use of books in its library. Catalogue cards representing the authors of books pertaining to Russia and significant material collateral to the study of that country are filed for Swarthmore College as well as for Haverford.

ART MUSEUM AND SLIDE COLLECTION

The collection of slides used in the Departments of Classical Archaeology and History of Art, includes some 40,000 items, representing all fields of Western and Oriental art from pre-historic times to the present. It is supplemented by a collection of 35,000 photographs and color reproductions.

A small but valuable group of original works of art, available for study, include Greek and Roman vases, ancient coins, sculpture, Oriental pottery and scrolls, prints, and modern American and European paintings. The Ella Riegel Museum of Classical Archaeology contains the Densmore Curtis Collection presented by Clarissa Dryden, part of the Hoppin Collection, the Elizabeth Washburn King Collection of Classical Greek coins, and the Aline Abaecherli Boyce Collection of Roman Republican silver coins, as well as various gifts from friends of the College. For Far Eastern study the Chapin Collection of books, paintings, calligraphy, textiles, and ceramics includes material from Korea as well as from China and Japan. Western art is variously represented by several small collections, including the Howard L. Gray Collection of Modern Prints and the Neu-berger Collection of Contemporary American Paintings.

Laboratories

THE DEPARTMENTS of natural sciences occupy three buildings. The laboratories and libraries of the Mathematics, Physics and Psychology Departments are in Dalton Hall, the original science building which was opened in 1893 and remodelled in 1939. The laboratories and libraries of the Chemistry and Geology Departments are in Park Hall, completed in 1939. The Biology Department is housed in a new building, completed in 1958.

In all buildings there are large laboratories and lecture rooms for undergraduate students and smaller seminar rooms and laboratories for graduate students. In addition to the usual equipment the science departments have special apparatus and instruments, needed in particular research projects by faculty and graduate students, and made available in part through the plan of the Coordination of the Sciences.

In the Science Center there is a laboratory for microphotography and a glass-blowing shop as well as the large mineral collection of the Geology Department. In Dalton Hall there is an expert machinist in charge of a machine shop. In addition there is also a student shop at the disposal of graduate students.

Each of the science departments has its own library including a large collection of scientific journals. The Geology Department also has a collection of over 25,000 maps on deposit from the U. S. Army Map Service.

Health

EVERY GRADUATE student whether resident or non-resident must file a physician's certificate stating that she has been vaccinated against smallpox during the year before entrance to the Graduate School and that she exhibited a typical or immune reaction to this vaccination. Students who do not certify to vaccination will be vaccinated at the time of their entrance physical examinations and charged a fee of two dollars. There is no exception to this rule.

Every entering resident graduate student is required to file at the office of the Dean of the Graduate School, on a blank supplied by that office, a report of a recent medical examination, filled in and signed by a physician.

Resident students must present on a separate blank a statement of immunization against tetanus by toxoid, evidence of a negative Schick test, or immunization against diphtheria, and a Mantoux test within one year of entrance. If the Mantoux test is reported positive a flat chest X-ray is required. If these have not been done by the time the student arrives in Bryn Mawr, these tests will be done at the time of the initial physical examination at a fee of one dollar for each test and the chest X-ray will be taken at Bryn Mawr Hospital at the student's expense.

Every resident graduate student must file a certificate stating that her eyes have been examined by an ophthalmologist within six months before entrance to the Graduate School. Failure to comply with the above rule entails an examination by one of the college consultants for which the student will be charged as a private patient by the ophthalmologist who makes the examination.

Any resident graduate student who has a positive Mantoux test is required to have a yearly flat chest plate at Bryn Mawr Hospital beginning the year after admission to the Graduate Center. The student is charged for this at the prevailing rates of the hospital.

Every entering resident graduate student is examined by the Physician of the College, with reference to physical development and general health. Second- and third-year residents whose health records have been approved by the College Physician are

not examined. Any graduate student who at the time of the examination or at any time during the year is not in good health is placed on the health supervision list.

The College maintains a modern 22-bed infirmary staffed by five registered nurses and a secretary-technician. The College Physician is in her office in the infirmary daily and may be consulted by the students without charge. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The fees of the consulting physicians and surgeons and other specialists recommended by the College will be furnished on request. The infirmary is open when college is in session and during the spring vacation. It is closed during the Christmas vacation.

The residence charge paid by each resident graduate student entitles her to free consultation with the College Physician and College Psychiatrists and to treatment in the college dispensary. It also entitles her to be cared for in the infirmary for seven days (not necessarily consecutive) during the year, to attendance by the College Physician during this time and to nursing, provided her illness is not contagious and is not sufficiently serious to require the services of a special nurse. The fee for each day in the infirmary after the seven-day period is nine dollars. In case of contagious disease special nursing is obligatory and the student must meet this expense.

Non-resident graduate students may, if they so desire, pay a non-resident infirmary fee of fifteen dollars which entitles them to care and consultations by the College Physicians and Psychiatrists, and to dispensary care. (Non-resident Fellows and Scholars whose homes are not in the neighborhood are required to pay this dispensary fee.) *Since non-resident students cannot be given bed care in the infirmary they are urged to take out hospital insurance.*

Announcement of Courses

The following is a list of the seminars and graduate courses and of undergraduate courses which can be expanded to count for graduate credit. It is the practice of most departments to vary the graduate courses and seminars from year to year. The announced order may be changed either because of changes in the teaching staff or in order to meet the needs of the students. For a full announcement of undergraduate courses see the Calendar of Undergraduate Courses.

Undergraduate courses in each department are numbered according to the following system:

201, 202, etc. indicate second-year undergraduate courses.

301, 302, etc. indicate advanced undergraduate courses.

* indicates elective courses.

“a” the letter “a”, following a number, indicates
a half-course given in the first semester.

“b” the letter “b”, following a number, indicates
a half-course given in the second semester.

“c” the letter “c”, following a number, indicates
a half-course given two hours a week
throughout the year.

[] Square brackets enclosing the titles of courses
indicate that, although the courses are
regular parts of the program, they are
not given in the current year.

Biology

PROFESSORS:

MARY S. GARDINER, PH.D., *Chairman*

L. JOE BERRY, PH.D.

ELEANOR A. BLISS, SC.D.

JANE M. OPPENHEIMER, PH.D.

ASSISTANT PROFESSOR:

ROBERT L. CONNER, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. Good undergraduate training in Biology, or Zoology or Zoology and Botany, including courses in general and organic chemistry. Students whose preparation in Biology or in Chemistry is not considered adequate for admission to seminars will be required to make up the deficiency.

Major and Allied Subjects. Students may specialize either in structural or functional biology. Students electing the former will be expected to take some work in the latter, and vice versa. The work in the subsidiary field of Biology may be counted as allied work; other allied subjects may be chosen from fields in Chemistry and Physics, and in special cases, with the approval of the Graduate Committee, from other related fields.

Language Requirements. Candidates for the M.A. and Ph.D. degrees must offer French and German to be tested by the special type of examination.

Program and Examination for the M.A. One full year, or its equivalent, of course work in seminars or advanced undergraduate courses arranged for seminar credit and a written report on a piece of experimental work carried out under the direction of a member of the Department. Qualified students may substitute a unit of supervised research for formal course work. While the work may be completed in one year by full-time students, it may be extended over two or more years and students with incomplete preparation may find such extension necessary. The Final Examination consists of a three-hour written examination covering the areas of study and a forty-five minute oral examination concentrating particularly on the interpretation and significance of the experimental problem.

Examinations for the Ph.D. The Preliminary Examination for the Ph.D. consists of three written examinations of four hours' duration. Two of these will usually be in the major field and one in an allied field. In preparation for them, the candidate will probably elect to take all the seminars offered in her special area of interest and selected seminars or courses in related or allied fields. A large proportion of her time will be given to experimental research, the results of which will form the substance of her dissertation. The Final Examination is oral, covering the subject of the student's dissertation in relation to more general biological problems.

SEMINARS AND GRADUATE COURSES

All advanced undergraduate courses may be taken for graduate credit, provided that some additional work either in reading or experimentation is arranged with the instructor and completed by the student.

Seminars are offered in the following fields. The topics considered in any year are selected in accordance with the needs and desires of the students enrolled.

Structural Biology

Miss Gardiner: *Cytology*

Cell structure and function.

Cytological aspects of normal and abnormal growth.

Histogenesis.

Problems in mitosis and meiosis.

Miss Oppenheimer: *Experimental Embryology*

Factors controlling growth and differentiation.

Form and function in animal development.

Gastrulation and organogenesis in vertebrates.

Morphogenesis in invertebrates.

Functional Biology

Mr. Conner: *Biochemistry*

Selected topics in intermediary metabolism.

Biochemical techniques.

Mr. Berry: *Experimental Physiology*

Bioelectrics and selected topics in biophysics.

Kinetics of biological reactions.

Mechanisms of defense against infectious diseases.

Physiological techniques.

Physiology of micro-organisms.

*Bacteriology*Miss Bliss: *Bacteriology*

Bacteria and chemotherapeutic agents.

ADVANCED UNDERGRADUATE COURSES

- [301. *Theories of Heredity*: Miss Gardiner.]
- 302. *Developmental Physiology*: Miss Oppenheimer.
- 303. *Physiology of Micro-organisms*: Mr. Berry.
- [304. *Micro-anatomy*: Miss Gardiner.]
- 305. *Biochemistry*: Mr. Conner.

Chemistry

PROFESSOR:	ERNST BERLINER, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR:	GEORGE L. ZIMMERMAN, PH.D.
ASSISTANT PROFESSORS:	FRANK B. MALLORY, PH.D. JOSEPH VARIMBI, PH.D.
LECTURER:	FRANCES BONDHUS BERLINER, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate preparation in Chemistry including courses in general inorganic, analytical (qualitative and quantitative), organic and physical chemistry, college Physics and Mathematics (calculus). Students whose undergraduate training in Chemistry is not entirely adequate may be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

Major and Allied Subjects. Students may specialize in either organic or physical chemistry. The allied subject for the Ph.D. may be chosen from the fields of Biochemistry, Mathematics, Physics, Inorganic Geology and a branch of chemistry different from that of the major subject. Other combinations may be accepted with the approval of the Graduate Committee and on the recommendation of the Department.

Language Requirements. Candidates for the Ph.D. must offer German and French; candidates for the M.A. may substitute

Russian for French. The languages are tested by the special type of examination.

Program and Examination for the M.A. Candidates will usually offer one seminar in their special field, another seminar or advanced undergraduate course in chemistry or an allied field and one unit of research. This unit consists of an experimental investigation carried out under the direction of a member of the Department. The Final Examination consists of a four-hour written examination, or a three-hour written and one-hour oral examination.

Program and Examinations for the Ph.D. Candidates will normally be expected to devote a large proportion of their time to the execution and interpretation of the experimental work, carried out under the supervision of a member of the Department. They will usually take all seminars offered in their special fields during their stay at Bryn Mawr, in addition to such courses as will give them a broad background in chemistry. The Preliminary Examination will normally be taken after the experimental work is well advanced. It consists of three four-hour written examinations, one of which is in organic chemistry, one in physical chemistry and the third will place the restricted field of the student's dissertation within the special field. For students who offer a minor subject in a department other than chemistry, equivalent arrangements will be made after consultation with the Department. The Final Examination (oral) is devoted to the subject matter of the student's dissertation.

SEMINARS AND GRADUATE COURSES

In order to meet the needs of the students and to offer them as wide a selection of topics as possible, the seminars are arranged in such a way that the same one is usually not repeated within a three-year period. The topics listed below are given in one-semester seminars, counting one half unit of credit each.

Mr. Berliner: *Organic Chemistry*

Physical Organic Chemistry.

Structure and Physical Properties of Organic Compounds.

Physical-Organic Aspects of Aromatic Chemistry.

Topics in Stereochemistry.

- Mrs. Berliner: *Organic Chemistry*
 Natural Products.
 Chemistry of Heterocyclic Compounds.
 Chemistry of Free Radicals.
- Mr. Mallory: *Organic Chemistry*
 Molecular Orbital Theory.
 Organic Photochemistry.
 Spectroscopic Analysis in Organic Chemistry.
 Radical Reactions.
- Mr. Zimmerman: *Physical Chemistry*
 Advanced Topics in Thermodynamics.
 Quantum Theory.
 Introduction to Chemical Physics.
 Mathematical Methods in Physical Chemistry.
 Chemical Kinetics.
- Mr. Varimbi: *Inorganic and Physical Chemistry*
 Inorganic Chemistry.
 Theory of Solutions.
- Physiological Chemistry*: See under Biology.

SELECTED UNDERGRADUATE COURSES

- 301 [a and b]. *Inorganic Chemistry*: Mr. Varimbi.
- 302 [a and b]. *Advanced Organic Chemistry*: Mr. Berliner
 and Mr. Mallory.
- 303 [a and b]. *Advanced Physical Chemistry*: Mr. Zimmerman.

Colloquium. All members of the Department and the graduate students, and often outside speakers, meet to discuss current publications in chemistry every week.

Classical Archaeology

- ASSOCIATE PROFESSOR: MACHTELD JOHANNA MELLINK, PH.D.,
Chairman
- ASSISTANT PROFESSOR: ALEXANDER CAMBITOGLU, PH.D.
- CURATOR OF SLIDES
 AND ASSISTANT: BRUNILDE SISMONDO, PH.D.
- PROFESSOR OF
 ANTHROPOLOGY:

FREDERICA DE LAGUNA, PH.D.

Special Requirements for Graduate Work
 (for the general requirements, see pp. 25 30)

Prerequisites. An undergraduate major in Archaeology or at least two courses in Archaeology combined with a major in Greek, Latin or History of Art. It is desirable that all students should have some knowledge of Greek.

Major and Allied Subjects. Greek Language and Literature; Latin Language and Literature; Archaeology of any other ancient Mediterranean or Near Eastern Culture; History of Art; Ancient History; Ancient Numismatics; Anthropology; a science integrated with the work of the major subject.

Language Requirements. German and one other modern language tested by either the general or the special examination for the M.A.; for the Ph.D., a thorough reading knowledge of German, tested by the special type of examination, and an adequate reading knowledge of a second foreign language.

Program and Examination for the M.A. Three units of work in Classical Archaeology or in Classical Archaeology and an allied field. The Final Examination is written, four hours.

Program and Examinations for the Ph.D. There is no fixed course of study or time requirement for the degree; but at least one of the preparatory years should be spent at some Mediterranean center such as Athens or Rome, and at least one summer should be devoted to European museums. (The Department has in its award the Riegel Fellowship for study abroad.) Before being permitted to take their preliminary examinations, candidates must satisfy their instructors that they are familiar with the general scope and method of archaeological study, including excavational research; that they know where the original source materials are; and that they can make practical use of bibliographical references. They must also satisfy the Department by written examination that they have an adequate general reading knowledge of ancient Greek.

The Preliminary Examination consists of four four-hour papers in such special fields as Greek and Roman sculpture, ancient architecture, Greek vase painting, numismatics, topography of classical sites, Aegean prehistory, Near Eastern archaeology, ancient Italy. One of the papers may be chosen from an allied subject; but none may deal with the same specific field as the dissertation, since this will be included in the final oral examination.

Cooperation with the Department of Classical Archaeology at the University of Pennsylvania. Attention is drawn to the

courses in Classical Archaeology offered by the University of Pennsylvania. Under the Reciprocal Plan, students at Bryn Mawr College may register for a unit of work at the University of Pennsylvania or pursue research at the University Museum. Reference should be made to the University of Pennsylvania *Bulletin*.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Miss Mellink:

Oriental Relations of Early Greek Art.

Aegean Archaeology.

Archaeology of the Ancient Near East.

Mr. Cambitoglou:

Problems in Greek Vase-Painting.

Relations Between Monumental Painting and Vase-Painting in Ancient Greece.

Problems in Greek Sculpture.

ADVANCED UNDERGRADUATE AND FREE ELECTIVE COURSES

[202a.* *Ancient Greek Cities and Sanctuaries.*]

202b.* *Cultural History of Archaeology.*

203a. *Greek Sculpture:* Mr. Cambitoglou.

203b. *Roman Sculpture:* Mr. Cambitoglou.

301a. *Ancient Painting:* Mr. Cambitoglou.

301b. *Ancient Architecture:* Miss Mellink.

[302a. *The Greek Style in Art:* Miss Mellink.]

Comparative Philology and Linguistics

PROFESSOR OF

GERMANIC PHILOLOGY: FRITZ MEZGER, PH.D.

PROFESSOR OF

ENGLISH PHILOLOGY: STEPHEN JOSEPH HERBEN, LITT.B., PH.D.

PROFESSOR OF

ITALIAN: ANGELINE HELEN LOGRASSO, PH.D.

LECTURER IN

SPANISH: JOAQUÍN GONZÁLEZ-MEULA, PH.D.

VISITING PROFESSOR

OF FRENCH: WILLIAM J. ROACH, PH.D.

Comparative Philology may be offered as an allied subject for the Ph.D. but not as a major subject.

Prerequisites. The prerequisite for the courses listed below is a good undergraduate major in any language or literature.

Mr. Mezger:

Sanskrit.

Studies in Indo-European Linguistics.

For other courses in Philology, see statements under the Departments of English, French, German, Italian, Spanish.

Economics

PROFESSORS:	MILDRED B. NORTHROP, PH.D., ¹ <i>Chairman</i>
	JOSHUA C. HUBBARD, PH.D.
ASSOCIATE PROFESSOR:	MORTON S. BARATZ, PH.D.
LECTURER:	MAXINE WOOLSTON, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate major or minor in Economics with work in related fields such as History and Political Science. Students whose undergraduate training in Economics is not entirely adequate may be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

Allied Subjects. Most subjects in the fields of the other social sciences, History and Philosophy, are acceptable as allied work. Mathematics, Statistics and Accounting are not only acceptable as allies but an adequate knowledge of one or more of these subjects is necessary to advanced work in Economics.

Language Requirements. For the Ph.D. two modern languages. For the M.A. two modern languages or one modern language and advanced statistics. The languages are tested by the special type of examination.

Program and Examination for the M.A. The program consists of three units of work in Economics or two in Economics and one in an allied field. One unit must be in Economic Theory. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

1. On leave of absence for the year 1958-1959.

Program and Examinations for the Ph.D. The Preliminary Examination consists of four three-hour written examinations, two of which must be in Economic Theory and The History of Economic Thought. The other two fields are selected by the student in consultation with members of the Department. Candidates for the Ph.D. are expected to have an adequate knowledge of Statistics and Mathematics and in some cases of Accounting. The Final Examination (oral) is devoted to the subject matter of the student's dissertation.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study. Normally the same seminar will not be given two years in succession.

[Miss Northrop:

International Economics.

Comparative Economic Systems.

The Development of Underdeveloped Areas.

The History of Economic Thought.]

Mr. Hubbard:

Money and Banking.

Economic Dynamics.

Business Cycles and Full Employment.

Contemporary Economic Theory.

Mr. Baratz:

Industrial Organization.

Prices and Price Theory.

Government and Business.

Mrs. Woolston:

Labor and Management.

Wages and Wage Theories.

SELECTED UNDERGRADUATE COURSES

301a. *History of Economic Thought*: Mr. Hubbard.

301b. *Contemporary Economic Thought*: Mrs. Woolston.

[302b. *Comparative Economic Systems*: Miss Northrop.]

Journal Club. Students and members of the faculty in the Department together with those in the Departments of History and Political Science meet four or five times a year to discuss research in progress, or recent books or projects of interest.

Education and Child Development

PRESIDENT OF THE
COLLEGE:

KATHARINE ELIZABETH McBRIDE,
PH.D., LL.D., L.H.D., SC.D.

PROFESSOR AND DIRECTOR,

CHILD STUDY INSTITUTE: RACHEL DUNAWAY COX, PH.D.,
Chairman

LECTURER AND

DIRECTOR, PHEBE ANNA

THORNE SCHOOL:

SUSAN E. MAXFIELD, M.S.

LECTURER:

ETHEL W. MAW, M.S.

ASSISTANT:

LELIA BRODERSEN, M.A.

ASSOCIATE PROFESSOR
OF SOCIAL WORK:

MARY M. ZENDER, M.A., M.S.S.

The program of study prepares for college teaching and research in Educational Psychology and Child Development, for child guidance and for teaching in the schools. The training is carried on in a setting of service to public and laboratory schools and the community at large. Classes, seminars and staff conferences provide opportunity for students from several related disciplines to develop competence in the team approach to the children's specialties in education, psychology and guidance agencies. Trends in physical, intellectual and emotional growth from infancy to maturity are stressed. The chief focus is upon learning in the family and the school.

Work leading to the certificate to teach in the public secondary school is open to students who present some preparation in psychology and are qualified in a subject matter field. Foundation work for teaching in the elementary school is available. Under the reciprocal plan with the University of Pennsylvania (see page 24) the equivalent of one seminar may be taken at that institution.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate preparation in the liberal arts which must include a laboratory course in General Psychology or its equivalent. Students whose undergraduate training in Psychology is not adequate may be required to take such undergraduate courses as seem necessary.

Major and Allied Subjects. Candidates for either advanced degree are expected to become competent in several different areas within this specialization. These areas are child development, learning, measurement and guidance, secondary education and philosophy of education. For the M.A., two fields are required. For the Ph.D., five fields must be presented. The allied subject may be chosen from the following fields: Psychology, Sociology, Anthropology or Philosophy.

Requirements in Languages and Statistics. French and German, special type of examination for the Ph.D.; either French or German, general or special type of examination for the M.A. Candidates for both degrees will be required to demonstrate a working knowledge of statistics. The requirement may be satisfied by passing an approved course or an examination.

Program and Examination for the M.A. Candidates will normally offer two units of graduate work in Education and a third graduate unit in an allied field. The Final Examination consists of two three-hour written examinations—one in each field offered, and a one-hour oral examination.

Examination for the Ph.D. The Preliminary Examination consists of four written examinations in special fields, including the allied field, and an oral examination on the entire field.

The Phebe Anna Thorne School and the Child Study Institute

The Phebe Anna Thorne School is maintained by the Department as a laboratory nursery school for normal children where students may observe and assist in the program for three and four year olds. For those preparing for teaching, medical work with children, child welfare or guidance, the school provides opportunity for direct experience with early school development.

The Department also operates the Child Study Institute, a psychological and guidance center where problems of learning and behavior are studied and remedial measures planned and carried out for parents and children. The service is given by a staff of qualified specialists in child psychiatry, psychology, social case work and remedial teaching. Advanced students participate in the work at various levels of responsibility. Referrals from the neurological and pediatric departments of the Bryn Mawr Hospital, from psychiatrists and social agencies give students the opportunity for acquaintance with a diversity of clinical material.

A separate building on the college grounds houses the Thorne School and the Institute with rooms equipped for nursery school

teaching and for individual examination of pupils, remedial teaching, play therapy and student observation.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Miss McBride:

The American School.

Mrs. Cox:

Advanced Clinical Evaluation (including the Projective Techniques).

Problems of Child Development.

The Study of the Individual.

Principles of School Guidance.

Miss Maxfield:

Developmental Psychology.

Early Childhood Education.

Mrs. Maw:

Educational Psychology.

Research and Measurement in Education and Child Development.

Miss Zender:

The Communication and Counselling Process.

SELECTED UNDERGRADUATE COURSES

[201a. *Educational Psychology*: Mrs. Cox.]

Prerequisite: Psychology 101. Laboratory two hours per week.

202a. *Child Psychology*: Miss McBride and Mrs. Cox.

Prerequisite: Psychology 101. Experience in the Phebe Anna Thorne School required, two hours per week.

301a. *Principles of Teaching in the Secondary School*: Mrs. Maw.

Laboratory: 12 hours per week supervised practice teaching. This course satisfies the practice teaching requirement of most states. Plans for registration should be made in the spring or summer before the student plans to take the course in order to arrange the practice teaching assignment.

English

PROFESSORS:

STEPHEN JOSEPH HERBEN, LITT.B., PH.D.

K. LAURENCE STAPLETON, A.B.,

Chairman

ARTHUR COLBY SPRAGUE, PH.D.

MARY KATHARINE WOODWORTH, PH.D.

BETTINA LINN, M.A.

VISITING PROFESSOR:

SAMUEL CLAGGETT CHEW, PH.D., LITT.D.

ASSOCIATE PROFESSOR:

WARNER B. BERTHOFF, PH.D.

ASSISTANT PROFESSORS:

DAVID BONNELL GREEN, PH.D.

ISABEL GAMBLE MACCAFFREY, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate major in English (or its equivalent) consisting of a critical and historical study of several periods of English Literature. Students working in the mediaeval period must have a reading knowledge of Latin. For other students this is strongly recommended. Students must have had some training in at least one other field of the humanities: a classical or a modern foreign literature, History, the History of Art or Philosophy.

Allied Subjects. Any language and literature, classical or modern European; English Philology; American Literature; Philosophy; History, mediaeval or modern; and the History of Art.

Language Requirements. French and either German, Italian or Spanish, tested for the M.A. by the general or the special type of paper; for the Ph.D., by the special type.

Program and Examination for the M.A. Three units of work in English or two in English and one in an allied field. The final examination is written, four hours in length.

Examinations for the Ph.D. The Preliminary Examination is in five parts: four written (from three to four hours each) and an oral (one to two hours). The candidate whose major interest is in the mediaeval period must take at least one examination in the modern period; the candidate whose major interest is in the modern period must take at least one examination in the mediaeval period. One examination may be in an allied field. The Final Examination (oral, from one to two hours) is in the field in which the candidate has written her dissertation.

SEMINARS AND GRADUATE COURSES

English Literature

Mr. Herben (One of the following seminars):

Old English Christian Poetry.

Beowulf and the Old English Lyrics.

Chaucer.

Middle English Romances.

Mr. Chew:

Problems in English Literature of the Renaissance.

Mr. Sprague (One of the following seminars):

Shakespeare.

Restoration Drama.

Miss Stapleton:

1958-1959: Milton.

1959-1960: Studies in poetry.

Miss Woodworth:

1958-1959: Contemporary Literature.

1959-1960: Literature of the Eighteenth Century.

Mr. Green:

1958-1959: The Romantic Period.

1959-1960: The Victorian Period.

Mr. Berthoff:

Nineteenth-Century American Writers.

A Seminar in Philology for students of English is offered in the Department of German (see p. 68).

SELECTED UNDERGRADUATE COURSES

- 213b.* *History of the English Language*: Mr. Herben.
 201. *English Literature of the Middle Ages*: Mr. Herben.
 202. *Shakespeare*: Mr. Sprague.
 [203. *The Romantic Period*: Mr. Green.]
 204. *The Victorian Period*: Mr. Green.
 205. *Representative English Novelists*: Miss Linn.
 207. *English and American Literature of the Last Half-Century*: Miss Woodworth.
 208. *American Literature*: Mr. Berthoff.
 [212b. *Blake*: Miss Woodworth.]
 [213a. *Mediaeval Narrative*: Mr. Herben.]
 [214a. *Sixteenth Century Prose*: Mrs. MacCaffrey.]
 301. *Old English Literature*: Mr. Herben.
 302a. *The Drama from the Beginnings to 1642*: Mr. Sprague.
 303b. *English Poetry from Spenser to Donne*: Mr. Sprague.
 304. *The Seventeenth Century*: Mrs. MacCaffrey.
 305. *The Eighteenth Century*: Miss Woodworth.

French

PROFESSOR:	MARGARET GILMAN, PH.D.,* <i>Chairman</i>
VISITING PROFESSOR:	WILLIAM J. ROACH, PH.D.
ASSISTANT PROFESSORS:	MICHEL GUGGENHEIM, PH.D. PHILIP KOCH, PH.D. MARIO MAURIN, PH.D., <i>Acting Chairman</i>
VISITING LECTURERS:	RENÉ N. GIRARD, PH.D. MARCEL M. GUTWIRTH, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate major in French, based on study in school and at least three years of college French, including some advanced work in literature, with evidence of ability to present reports and carry on discussion in French. Training in Latin corresponding to at least two years' study in school.

Major and Allied Subjects. Students may specialize either in Old French Philology and Literature or in Modern French Literature. If the major field is Old French, advanced work in Modern French Literature may be offered as an allied subject and vice versa. The other allied subjects accepted by the Department are: any literature, ancient or modern; Comparative Philology; European History; Philosophy; History of Art.

Language Requirements. German, and either Italian or Spanish, to be tested by a general paper for the M.A., and a special paper for the Ph.D. Candidates for the M.A. may substitute for the Italian or Spanish examination evidence of extensive training in Mediaeval Latin or Advanced Classical Latin.

Program and Examination for the M.A. Candidates will normally offer two units of graduate work in French and a third unit, graduate or undergraduate, in either French or an allied field. The Final Examination consists of a three-hour written examination and a one-hour oral examination, both in French.

* Deceased May 27, 1958.

Program and Examinations for the Ph.D. The Preliminary Examination consists of four papers written in French, and an oral examination conducted in English. Candidates whose major field is Old French are expected to present evidence of a general knowledge of Modern French Literature and to take one examination in that field and vice versa. Before being admitted to the Preliminary Examination candidates must satisfy the Department that they have an adequate command of spoken French.

SEMINARS AND GRADUATE COURSES

The introductory course in Old French is offered in each year. Students wishing further work in Old French may attend graduate courses at the University of Pennsylvania. Graduate seminars in selected fields of Modern French Literature are given in each year, so arranged that the same one will not be given in successive years. In 1958-1959 the following seminars will be given:

Old French

Mr. Roach: Introduction to Old French Philology and Literature.

Modern French Literature

Semester I.

Mr. Guggenheim: *Rousseau and Preromanticism.*

Mr. Maurin: *Poetic Theory from Mallarmé to Surrealism.*

Semester II.

Mr. Koch: *Racine and Pascal.*

Mr. Girard: *Proust.*

During the first semester one of the following courses is offered by the Department:

Problems and Methods of Research in French Literature.

Representative French Books.

All candidates for the M.A. and Ph.D. degrees in French are advised to elect these courses, which carry no credit.

Journal Club. During the second semester members of the Department and graduate students meet at intervals to discuss research in progress, or recent books and articles of interest. Some of these meetings are held jointly with the Departments of Italian and Spanish.

SELECTED UNDERGRADUATE COURSES

- [301. *French Poetry from Villon to Valéry:* Mr. Maurin.]
- 302. *French Drama:* Mr. Koch, Mr. Maurin.
- 303. *The French Novel from 1700 to 1950:* Mr. Girard, Mr. Guggenheim.
- [304. *French Essayists and Moralists:* Mr. Maurin, Mr. Koch.]

Geology

PROFESSORS:	EDWARD H. WATSON, PH.D., <i>Chairman</i>
	LINCOLN DRYDEN, PH.D.
	DOROTHY WYCKOFF, PH.D.
INSTRUCTOR:	MARIE MORISAWA, M.A.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. A course in general geology and at least one course from each of the larger fields: physical geology and paleontologic-stratigraphic geology. Training in the allied sciences of physics, chemistry, biology and mathematics is necessary.

Major and Allied Subjects. Students may specialize in the fields typified by: Mineralogy-Petrology, Paleontology-Stratigraphy or Regional and Structural Geology. The allied subject for the Ph.D. may be either another field of geology or any one of the other natural sciences or mathematics; other subjects may be accepted in special cases.

Language Requirements. For the M.A. and the Ph.D., German and one other modern language, to be tested by the special type of examination.

Program and Examination for the M.A. Three units of work, of which one will usually be a special piece of field or laboratory research. The final examination consists of a four-hour written test and a one-hour oral.

Program and Examinations for the Ph.D. Candidates will spend a major proportion of their time on a research problem; ordinarily, this will involve a combination of field mapping or collecting, together with laboratory study. The number of units of class work to be taken will depend on the student's preparation. Preliminary examinations will test general background in geology, the candidate's special field and either an allied subject or an additional field in geology.

SEMINARS AND GRADUATE COURSES

At least three seminars are offered each year, to be selected from the following:

Mr. Watson: *Petrology*

Selected subjects in the structure, physical chemistry and origin of the igneous rocks.

Miss Wyckoff: *Metamorphism*

The physical and chemical processes of metamorphism, accompanied by regional studies.

Mr. Watson, Miss Wyckoff: *Petrographic Methods*

This is largely a course in laboratory instruction and in general will accompany the seminars in petrology and metamorphism. Special techniques such as the universal stage, X-ray analysis, mechanical separations from rocks and petrofabric analysis will be taught.

Mr. Dryden: *Stratigraphy*

A study of selected theoretical and practical problems of correlation. Usually conducted in connection with a field problem.

Mr. Watson, Miss Wyckoff: *Structural Geology*

The analysis of regional structures, generally undertaken with reference to a field problem.

Mr. Watson: *Mineralogy*

The optical, chemical and X-ray study of selected mineral groups.

Mr. Dryden: *Sedimentation*

A study of the origin of sedimentary rocks; their source, transportation and deposition.

SELECTED UNDERGRADUATE COURSES

- 301. *Structural and Field Geology*: Mr. Watson.
- 302. *Stratigraphy*: Mr. Dryden.
- 303. *Optical Mineralogy* (first semester) and *Petrology* (second semester): Miss Wyckoff, Mr. Watson.
- 304. *Cartography*: Mr. Watson, Miss Wyckoff.
- 305. *Geography*: Miss Wyckoff.
- 306. *The Development of Scientific Thought*: Miss Wyckoff, Miss Lehr, and other members of the Faculty.

German

PROFESSORS:

FRITZ MEZGER, PH.D.,
Chairman

MYRA RICHARDS JESSEN, PH.D.

ASSOCIATE PROFESSOR:

JOACHIM H. SEYPPPEL, PH.D.

ASSISTANT PROFESSOR:

MARTHA M. DIEZ, M.A.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate major or minor in German, based on at least three years of college German, part of it in advanced courses; adequate reading from German Literature, preferably of the Mediaeval Period and the Eighteenth and Nineteenth Centuries. All graduate students should normally have had some training in Latin; some knowledge of Greek is desirable for those who wish to major in Germanic Philology.

Major and Allied Subjects. Major Subjects: German Literature, Germanic Philology, Old Norse. Allied Subjects for those majoring in German Literature: Germanic Philology, any ancient or modern European Literature; any field of European History from the Middle Ages to the present time; Philosophy; History of Art. For those majoring in Germanic Philology: German Literature; Old Norse, any other Germanic, any Classical, Romance or Slavic Language. For those majoring in Old Norse, the same allied fields as for Germanic Philology with the substitution of Old Norse for Germanic Philology.

Irrespective of the elected allied subject, Ph.D. candidates majoring in German Literature, Germanic Philology or Old Norse must satisfy certain minimum intradepartmental requirements in German Literature and Germanic Philology. In general, the Department would advise German Literature as an allied subject for Germanic Philology or Old Norse, and Germanic Philology as an allied subject for German Literature.

Language Requirements. French, tested by the special type of examination, is required for the M.A. and the Ph.D. Knowledge of one or more Germanic dialects is required of Ph.D. candidates. M.A. candidates may substitute for this requirement another modern European language, Greek or evidence of advanced training in Latin.

Program and Examination for the M.A. The normal program consists of one unit in German Literature, one in Germanic Philology and a third unit in either of these fields or in an allied field. The Final Examination is written and four hours in length.

Examination for the Ph.D. The Preliminary Examination consists normally of three written papers in the major field and one in an allied field and an oral examination.

SEMINARS AND GRADUATE COURSES

The courses offered are selected from the following:

German Literature

Mrs. Jessen:

The Classical Drama: Goethe and Schiller.

Topics from the German Drama of the Nineteenth Century.
The Novelle in the Classical and Romantic Periods.
The Novel of Realism.

Mr. Seyppel:

Poetry of the Classical and Romantic Periods.

Germanic Philology

Mr. Mezger:

Old High German and Middle High German Literature.
The German Language.
The English Language.
Introduction to Germanic Philology.
Comparative Germanic Grammar.

Old Norse

Reading of texts. Comparative Grammar.
Saga and Edda.

SELECTED UNDERGRADUATE COURSES

- [302. *The Classics of the Nineteenth Century*: Mr. Seyppel.]
- 303. *German Literature from 1850 to 1940*: Mr. Mezger.
- 304. *Introduction to German Philology*: Mr. Mezger.
- [305. *Middle High German Literature*: Mr. Mezger.]
- 306. *The German "Novelle"*: Mrs. Jessen.
- [307. *The German Drama*: Mrs. Jessen.]

Greek

PROFESSOR:

RICHMOND LATTIMORE, PH.D.,
Chairman

ASSOCIATE PROFESSOR:

MABEL L. LANG, PH.D.

INSTRUCTOR:

ROSAMOND KENT SPRAGUE, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate major or minor in Greek, based on at least four years of college Greek, or the equivalent, with

representative reading from Greek literature and history which, in the opinion of the Department, provides an adequate basis for graduate work. It is expected that all graduate students in Greek should have some knowledge of Latin.

Allied Subjects. Any literature, ancient or modern; Ancient History; Ancient Philosophy, Classical Archaeology, Comparative Philology.

Language Requirements. French and German, to be tested by a general paper for the M.A. and by a special paper for the Ph.D.

Program and Examination for the M.A. The program consists of two units of graduate work in Greek and a third unit in an allied field. Before admission to the Final Examination candidates must pass an examination in Greek sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examinations for the Ph.D. Before admission to the Preliminary Examination candidates must pass a rigorous examination in Greek sight translation. The Preliminary Examination consists of four written papers, one of which shall be in an allied subject, and an oral examination. The fields from which the three major papers may be selected include: Epic Poetry, Lyric Poetry, Tragedy, Comedy, the orators, the historians, the Pre-Socratics, Plato and various periods of Greek history.

SEMINARS AND GRADUATE COURSES

1958-1959:

Mr. Lattimore:

Greek Tragedy.

Mrs. Sprague:

Plato and the Sophists.

SELECTED UNDERGRADUATE COURSES

[301. *Early Greek Literature: History and Criticism:* Mr. Lattimore, Miss Lang.]

History

PROFESSORS:

CAROLINE ROBBINS, PH.D.,
Chairman

FELIX GILBERT, PH.D.

ASSOCIATE PROFESSOR:

ARTHUR P. DUDDEN, PH.D.

ASSISTANT PROFESSORS:

RAYMOND F. BETTS, *D. d'Univ.*, PH.D.

DAVID J. HERLIHY, PH.D.

PROFESSOR OF LATIN:

THOMAS ROBERT SHANNON
BROUGHTON, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. A good undergraduate preparation in general history, the humanities and the social sciences. Students who wish to work in seminars in the Ancient or Mediaeval fields must be able to read Latin. Those planning work in Modern European History must have a reading knowledge of one modern language, preferably French or German.

Major and Allied Subjects. Students may work in Ancient, Mediaeval or Modern European History as well as in English and American. Most subjects in the field of history, social science, literature and the humanities will be accepted as allied work provided the student's general preparation is acceptable to the Department.

Language Requirements. Two languages are required for the M.A. and for the Ph.D. degree. Preference is given to French and German and substitutions for either of these languages may be made only with the consent of the Department. For the M.A., students may take either the special or the general type of examination. For the Ph.D., the special type is required.

Program and Examination for the M.A. The program consists of three units of work in History or in History and an allied field. The Final Examination is written and usually four hours in length.

Program and Examinations for the Ph.D. All students are expected at some time to take a seminar or course in which some aspects of historiography are studied. The Preliminary Examination tests the student's competence in four general fields of history, or in three fields of history and one field in an allied subject. For example, work in Mediaeval Literature, Art or Philosophy is usually recommended to students of Mediaeval History and one of these may be offered in the Preliminary Examination. Students whose dissertations are in American History will be required to take at least two fields in European History. Students specializing in English History must offer at least two fields of Mediaeval or Modern European History for examination.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the fullest possible choice for students over a two- or three-year period of study. Normally the same seminar will not meet two years in succession.

Mr. Broughton: *Ancient History*

See statement under the Department of Latin

Mediaeval and Renaissance History

Mr. Herlihy: Mediaeval Institutions.

Mr. Gilbert: Intellectual and Political Problems in the Age of the Renaissance and Reformation.

British History

Miss Robbins: Topics in the History of the Period 1649-1783.

American History

Mr. Dudden: Topics in the History of the United States.

Modern European History

Miss Robbins: Eighteenth Century Life and Thought.

Mr. Betts: Topics in the Political History of the Nineteenth and Twentieth Centuries.

Mr. Gilbert: International Affairs in the Modern World.

Journal Club. Students and members of the faculty in the Department together with those interested in the Departments of Economics and Political Science meet four or five times a year to discuss research in progress, or recent books and projects of interest.

SELECTED UNDERGRADUATE COURSES

301. *History of Europe since 1890:* Mr. Gilbert.
 303a. *The Expansion of the American Nation:* Mr. Dudden.
 303b. *The American People in the Recent Past:* Mr. Dudden.
 [305. *Renaissance and Reformation:* Mr. Gilbert.]
 306a. *The Enlightenment:* Miss Robbins.
 306b. *Great Historians:* Miss Robbins.

History of Art

PROFESSORS:

JOSEPH CURTIS SLOANE, M.F.A., PH.D.,¹
Chairman

ALEXANDER COBURN SOPER, M.F.A., PH.D.²

RICHARD BERNHEIMER, PH.D.*

ASSOCIATE PROFESSOR:

JAMES W. FOWLE, PH.D.

LECTURERS:

MARIANNE W. MARTIN, M.A.

To be announced.

Special Requirements for Graduate Work
 (for the general requirements, see pp. 25-30)

Prerequisites. A good undergraduate preparation in art history is usually required, but exceptional students with training in other fields, such as history or philosophy, may be admitted. In such cases, the first year of graduate work will be spent in taking undergraduate courses offered by the Department. A reading knowledge of at least one modern language other than English, preferably French or German, is a virtual necessity.

Allied Subjects. With the permission of the Department, students may work in the fields of Classical Archaeology, History,

1. Semester I, 1958-1959.

2. On leave of absence for semester I, 1958-1959.

* Deceased May 29, 1958.

Philosophy, Anthropology and Literature, all such programs being integrated with the area of the student's major interest. A special field in the History of Art may also be offered.

Language Requirements. Two modern languages are required for both the M.A. and Ph.D. degrees. Preference is given to German and French, but substitutions may be made with the approval of the Department. For the M.A., students may take either the special or the general type of examination. For the Ph.D., the special type is required.

Program and Examination for the M.A. Three units of graduate work are required for the degree, one of which may be in an allied field. An extended paper, usually growing out of the work of one seminar, is required in addition to a final examination. The examination may be either written (four hours), or written and oral (three hours—one hour), and will deal with a field of concentration determined by consultation with the Department.

Program and Examination for the Ph.D. A minimum of two full years of graduate work is customary before candidates may expect to take their Preliminary Examination. The examination consists usually of four papers dealing broadly with the history of art since the classical period. Emphasis is placed upon those fields in which the student has specialized, one of them being the period dealt with in the dissertation. One examination may be in an allied field, but the program for such work must be arranged with the major Department.

Properly qualified candidates, upon consultation with both Departments, may offer a joint program in Art History and Classical Archaeology.

SEMINARS AND GRADUATE COURSES

The subject matter of the seminars is arranged to give the student a wide choice of material over a two- or three-year period. Normally the seminars are changed every year. The emphasis is placed upon the methodology of research rather than any coverage of all fields of art history.

Mr. Sloane:

Giotto.

Mr. Soper:

The Far East.

Mr. Fowle:

Nineteenth Century French Painting.

Note: Seminars in Classical Archaeology are open to properly qualified students.

Journal Club. Meetings of the faculty and students to hear reports on recent books, special pieces of research, and similar matters are held from time to time during the year.

SELECTED UNDERGRADUATE COURSES

201. *Italian Art:* Mrs. Martin.

301b.* *Painting in China and Japan:* Mr. Soper.

302. *Modern Art:* Mr. Fowle.

History of Religion

PROFESSOR OF LATIN: AGNES KIRSOPP MICHELS, PH.D.

PROFESSOR OF PHILOSOPHY

AND RELIGION:

GEDDES MACGREGOR, B.D., LL.B.,
D.PHIL., D.ès L.¹

VISITING PROFESSOR OF

PHILOSOPHY:

HYWEL D. LEWIS, M.A., B.LITT.

No graduate work is offered in History of Religion.

The courses listed are open to graduate students and may be taken for graduate credit with the permission of the major department.

UNDERGRADUATE COURSES

103. *Literary History of the Bible:* Mrs. Michels.

The history of the Bible, with special emphasis on analysis of text and on literary forms.

1. On leave of absence for the year 1958-1959.

[201a. *Comparative Religion*: Mr. MacGregor.]

[201b. *History of Christian Thought*: Mr. MacGregor.]

203. *Philosophy of Religion*: Mr. Lewis.

This course is also listed as Philosophy 203.

[203b. *Mediaeval Philosophy*: Mr. MacGregor.]

Italian

PROFESSOR:

ANGELINE H. LOGRASSO, PH.D.,
Chairman

Appointment to be announced

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate major or minor in Italian or its equivalent in ability to read, write and speak Italian together with a knowledge of Italian classical literature which, in the opinion of the Department, provides an adequate basis for graduate work.

Allied Subjects. Any language or literature, European History, History of Art, Philosophy, Music, Political Science; other fields of importance for the candidate's work will be considered.

Language Requirements. French and German, to be tested by a general paper for the M.A. and a special paper for the Ph.D. In exceptional cases, determined by the special interests of the student, Latin or another language may be substituted for one of the two required languages.

Program and Examination for the M.A. Three units of work in Italian or in Italian and an allied field. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examination for the Ph.D. The Preliminary Examination consists of four written papers and an oral examination. One paper must be in the field of Provençal, preferably Provençal and Old French. One paper may be in an allied field determined by the

special interests of the student. Before taking the Preliminary Examination the candidate must demonstrate proficiency in spoken Italian.

SEMINARS AND GRADUATE COURSES

The seminar given is selected from the following. Normally the same seminar does not meet two years in succession and is usually not repeated within a three-year period.

Miss Lograsso:

Provençal.

Old Italian.

Dante.

Literary Criticism.

Studies in Italian Romanticism.

Manzoni.

SELECTED UNDERGRADUATE COURSES

[102C.* *Dante in English Translation*: Miss Lograsso.]

The New Life and Divine Comedy.

[103C.* *Literature of the Italian Renaissance in English Translation*: Miss Lograsso.]

[201. *Classics in Italian Literature*: Miss Lograsso.]

Reading and explanation of texts, with a study of literary history.

202. *Dante*: Miss Lograsso.

The *Vita Nuova* and *Divina Commedia*, with some attention to the minor works. This course is open to anyone with a reading knowledge of Italian.

203. *Readings in Modern Italian Literature*: Instructor to be announced.

[302C. *The Italian Language*: Miss Lograsso.]

Advanced work in composition.

303. *Italian Literature of the Rinascimento*: Miss Lograsso.

[304. *Italian Literature of the Romantic Period*: Instructor to be announced.]

Latin

PROFESSORS:

THOMAS ROBERT SHANNON BROUGHTON,
PH.D., *Chairman*

BERTHE MARIE MARTI, PH.D.

AGNES KIRSOPP MICHELS, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate major or minor in Latin, based on study in school and at least three years of college Latin, part of it in advanced courses; representative reading from Latin Literature of the classical period which, in the opinion of the Department, provides an adequate basis for graduate work. It is desirable that all graduate students in Latin should have some knowledge of Greek.

Allied Subjects. Any literature, ancient or modern, including Mediaeval Latin Literature; Ancient History and, for students whose major interest is Mediaeval Latin, Mediaeval History; Classical Archaeology; Classical Philology. For most students the Department recommends Greek as the allied subject.

Language Requirements. French and German, to be tested by a general paper for the M.A. and a special paper for the Ph.D. In addition a reading knowledge of Greek is required for the Ph.D.

Program and Examination for the M.A. Candidates will normally offer two units of graduate work in Latin and a third unit, graduate or undergraduate, in an allied field. Before admission to the Final Examination candidates must pass an examination in Latin Sight Translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examinations for the Ph.D. Before admission to the Preliminary Examination candidates must pass a rigorous examination in Latin sight translation. Candidates who do not offer Greek as an allied field must pass an examination in sight translation of Greek before they are admitted to the Final Examination. The Preliminary Examination consists of four written papers and an oral examination. Candidates whose major interest is classical Latin are expected to offer in their Preliminary Examination

Latin Literature of the classical period (Livius Andronicus to Tacitus) and, in most cases, one subsidiary field within the major—for instance a period of Roman History, Roman Religion, the History of Classical Scholarship, Epigraphy or Palaeography. In addition candidates are expected to offer an allied field (usually Greek). Candidates whose major interest is Mediaeval Latin are expected to show in their Preliminary Examination a broad knowledge of classical Latin Literature, but the emphasis in the examinations will be determined by the special interests of the student.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Mr. Broughton:

The Augustan Empire.

History and Literature of the Second Century B.C.

Cicero's Correspondence.

Latin Inscriptions.

Miss Marti:

History of Classical Scholarship.

Literature of the Twelfth Century.

Latin Palaeography and Textual Criticism.

Literature of the Silver Age.

Mrs. Michels:

Lucretius and Catullus.

Augustan Poetry.

Vergil's Aeneid.

Roman Satire.

SELECTED UNDERGRADUATE COURSES

301a. *Vergil's Aeneid*: Mrs. Michels.

301b. *Tacitus and Livy*: Mr. Broughton.

[302a. *Lucretia and Vergil's Georgics*: Mrs. Michels.]

[302b. *Cicero and Caesar*: Mr. Broughton.]

Mathematics

PROFESSORS:	JOHN CORNING OXTOBY, M.A., <i>Chairman</i>
	MARGUERITE LEHR, PH.D.
ASSOCIATE PROFESSOR:	HAROLD W. KUHN, PH.D. ¹
LECTURER:	LOUIS SOLOMON, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. A good undergraduate preparation in Mathematics, or in Mathematics and Physics.

Major and Allied Subjects. Students may specialize in any of the broad divisions of mathematics: algebra, analysis, geometry, or mathematical physics, but are expected also to acquire a well-rounded knowledge of Mathematics. Certain courses in Physics, Chemistry or Philosophy (logic) are accepted as allied work.

Language Requirements. French and German, tested by the special type of examination for both the M.A. and the Ph.D.

Program and Examination for the M.A. The program consists of three units of work in mathematics, or in mathematics and an allied field. Advanced undergraduate courses which supplement the student's preparation may under certain conditions be taken for graduate credit. The Final Examination is usually oral and one hour in length.

Program and Examinations for the Ph.D. Candidates will take such courses and seminars as are needed to provide a sufficiently broad foundation. As they progress they will devote an increasing proportion of their time to individual study and research under the direction of a member of the Department. The Preliminary Examination is taken after the student is well advanced and usually consists of three or four written examinations intended to test the candidate's breadth of knowledge and understanding of the structure of mathematics as a whole. It may or may not include an oral examination. The Final Examination is oral and is devoted to the candidate's special field and the subject of the dissertation.

1. On sabbatical leave for the year 1958-1959.

SEMINARS AND GRADUATE COURSES

At least three graduate courses or seminars are offered each year. Additional courses of directed reading and research can be arranged. The seminars offered in any year are selected to meet the needs of the individual students. Some may be offered for one semester only. They are usually selected from the following:

Mr. Kuhn:

Combinatorial Topology.

Galois Theory.

Theory of Functions of a Complex Variable.

Theory of Games.

Miss Lehr:

Abstract Algebra.

Differential Geometry.

Probability Theory.

Projective Geometry and Lattice Theory.

Theory of Estimation and Tests of Hypothesis.

Mr. Oxtoby:

Ergodic Theory.

Mathematical Physics.

Measure Theory.

Point Set Topology.

Theory of Functions of a Real Variable.

Journal Club. A joint Mathematical Colloquium with Haverford and Swarthmore Colleges and the University of Pennsylvania meets approximately every two weeks for the presentation of current research by local or visiting mathematicians.

SELECTED UNDERGRADUATE COURSES

301. *Advanced Calculus:* Mr. Oxtoby.

[302b. *Introduction to Geometric Theories:* Miss Lehr.]

303a. *Introduction to Abstract Algebra:* Mr. Solomon.

304a. *Theory of Probability and Statistics:* Miss Lehr.

[305b. *Topics in Differential Geometry:* Miss Lehr.]

306b. *Theory of Numbers:* Mr. Solomon.

[310. *Theory of Functions of a Complex Variable:* Mr. Oxtoby.]

[311b. *Differential Equations:* Mr. Oxtoby.]

Music

PROFESSOR AND DIRECTOR OF

ENSEMBLE GROUPS:	AGI JAMBOR
VISITING PROFESSOR:	HORACE ALWYNE, F.R.M.C.M.
ASSOCIATE PROFESSOR:	ROBERT L. GOODALE, A.B., B.MUS., A.A.G.O., <i>Chairman</i>
ASSISTANT PROFESSOR:	SYLVIA W. KENNEY, B.MUS., PH.D.
ASSISTANT:	ELIZABETH E. BOOTH, M.A.

DIRECTOR OF ORCHESTRA: CHARLES W. LUDINGTON, M.F.A.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. Two years of Harmony, Counterpoint and Analysis, three years of History and Appreciation of Music, of which at least one should be in an advanced course, and a reading knowledge of one modern language, preferably German. Candidates must have a sufficient knowledge of Pianoforte or Organ playing to be able to play music of the technical difficulty of a Bach Figured Chorus.

Allied Subjects. Any modern language or literature, History, History of Art, History of Religion, Philosophy.

Language Requirements. Two modern languages are required for the M.A. degree, preference being given to German and French. The languages are tested by the general type of paper. For candidates for the Ph.D. degree two languages are required, one of which must be German. These are tested by examinations of the special type.

Program and Examination for the M.A. The program consists of three units of work in Music. The Final Examination is written and four hours in length.

Examinations for the Ph.D. The Preliminary Examination consists of four papers in the major field, or three papers in the major field and one in an allied field, and an oral examination. The oral examination covers the subject matter of the dissertation.

SEMINARS AND GRADUATE COURSES

Miss Kenney:

Musical Paleography of the Mediaeval and Renaissance Periods.

The Netherlands School of the Fifteenth and Sixteenth Centuries.

Mr. Goodale:

Music of the Twentieth Century.

Theory and Analysis.

Mme Jambor:

The Interpretation of Music.

A prerequisite for this seminar is the ability to perform on a musical instrument.

Mr. Alwyne:

The Nineteenth Century.

The Music of England.

Members of the Department:

The Baroque Period.

SELECTED UNDERGRADUATE COURSES

- 201. *The Romantic Period*: Mr. Alwyne.
- 202. *Advanced Theory and Analysis*: Mr. Goodale.
- 203C. *Bach*: Mme Jambor.
- 204C. *The Classical Period*: Mme Jambor.
- 301A. *Opera and Music Drama*: Miss Kenney.
- 301B. *Contemporary Music*: Mr. Goodale.
- [302A. *Mediaeval Music*: Miss Kenney.]
- [302B. *Renaissance and Baroque Music*: Miss Kenney.]
- [303A. *Orchestration*: Mr. Goodale.]
- 304C. *Interpretation of Keyboard Music, Seventeenth Century to the Present*: Mme Jambor.

Membership in the Ensemble Groups, the Orchestra and the College Chorus is open to Graduate Students. Participation by students in the Department in one or more of these organizations is strongly urged.

Philosophy

PROFESSORS:	MILTON CHARLES NAHM, B.LITT., PH.D., <i>Chairman</i>
	GEDDES MACGREGOR, B.D., LL.B., D.PHIL., <i>D. ès L.</i> ¹
	JOSÉ MARÍA FERRATER MORA, <i>Lic.F.L.</i>
	ISABEL SCRIBNER STEARNS, PH.D.
VISITING PROFESSORS:	PAUL SCHRECKER, PH.D., LL.D.
	HYWEL D. LEWIS, M.A., B.LITT.
ASSOCIATE PROFESSOR:	HUGUES LEBLANC, PH.D. ¹
LECTURER:	ANNA TERESA TYMIENIECKA, PH.D.
<hr/>	
INSTRUCTOR IN GREEK:	ROSAMOND KENT SPRAGUE, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. In general, an undergraduate major in Philosophy. Students whose undergraduate training does not include a major in Philosophy or whose undergraduate major work is not adequate may be required to take such undergraduate courses as the Department considers necessary.

Major and Allied Subjects. Students may major in either historical or systematic branches of Philosophy. Allied subjects: another field of Philosophy, Biology, Chemistry, Economics, English, French, Greek, History, Latin, Mathematics, Music, Physics, Political Science, Psychology, Sociology and Anthropology.

Language Requirements. French and German. In special cases, with the recommendation of the Department, a substitution may be made of one other modern language. For the M.A., students may take either the special or the general type of examination; for the Ph.D., the special type is required.

Program and Examination for the M.A. Three units of work in Philosophy or in Philosophy and an allied field. The Final Examination is usually written and four hours in length.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers in the major and allied fields and an oral examination.

1. On leave of absence for the year 1958-1959.

SEMINARS AND GRADUATE COURSES

A minimum of three seminars, historical and systematic, is offered each year. The sequence of the seminars listed below will be adjusted according to the needs of the students.

Mr. Ferrater Mora:

Continental Rationalism in the Seventeenth Century.

The Scientific Revolution; Descartes and Cartesianism;
Malebranche; Spinoza; Leibniz.

Nineteenth Century Philosophy.

Nineteenth century philosophic thought from positivism
to phenomenology.

Types of Philosophy.

A study of the various ways of grouping philosophic
systems, with an analysis of philosophic methods.

Mr. Nahm:

Kant.

Critique of Pure Reason.

Aesthetics.

A systematic and historical analysis of problems in the
philosophy of art.

Ethics.

The Ethics of Kant and Hegel; or The History of Eng-
lish Ethics; or Henry Sidwick and Contemporary
British Moralists.

Miss Stearns:

Plotinus.

A detailed study of the *Enneads*.

Epistemology.

An historical and systematic study of the function of
reason and other agencies in knowledge.

Metaphysics.

A study of such problems as time, the one and the
many, the individual, appearance and reality.

Mr. Leblanc:

[*British Empiricism.*

The philosophies of Locke, Berkeley and Hume.]

[*Logic.*

A systematic study of deductive or inductive logic.]

[*The Theory of Meaning.*

Detailed study of meaning in the light of developments
in modern logic.]

Mr. Schrecker:

[*Hegel and the Hegelian Schools.*

Study of the *Phenomenology of Spirit* and of Selections
from Feuerbach, Marx and other writers.]

Mrs. Tymieniecka:

Phenomenology.

A study of its origins and nature.

GREEK.

Mrs. Sprague:

Plato and the Sophists.

Journal Club. Students have the privilege of becoming auxiliary members of the Fullerton Club, which meets each month at the Deanery, and at which papers are read by members of the faculties of Bryn Mawr, Swarthmore, Haverford and other nearby colleges, and the University of Pennsylvania.

SELECTED UNDERGRADUATE COURSES

- 201a. *German Idealism*: Mr. Schrecker.
- 202a. *Logic*: Mr. Ferrater Mora.
- 203. *Philosophy of Religion*: Mr. Lewis.
- [203b. *Mediaeval Philosophy*: Mr. MacGregor.]
- 301a. *Aesthetics*: Mr. Nahm.
- 301b. *Theory of Knowledge*: Mrs. Tymieniecka.
- 302a. *Plato*: Miss Stearns.
- 302b. *Philosophy of History*: Mr. Schrecker.
- 303b. *Contemporary Philosophy*: Mr. Ferrater Mora.
- [304b. *Aristotle*: Mr. Ferrater Mora.]

Physics

PROFESSOR:

WALTER C. MICHELS, PH.D.,
Chairman

ASSOCIATE PROFESSORS:

ROSALIE C. HOYT, PH.D.
JOHN R. PRUETT, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate major in Physics or in a field of study closely allied to Physics (e.g. Mathematics, Chemistry, En-

gineering). Students who have not majored in Physics will usually find it necessary to take some undergraduate courses before entering graduate seminars.

Allied Subjects. Candidates for the degree of Doctor of Philosophy are in general expected to offer Mathematics as an allied subject. They may substitute Chemistry, Biology or Geology if their mathematical training is accepted as adequate for their work in Physics.

Language Requirement. The two languages required for the M.A. and Ph.D. degrees will ordinarily be chosen by the student to include one each from two of the following categories: (a) German; (b) Russian; (c) French, Italian or Spanish. The examination will be of the special type.

Program and Examination for the M.A. An oral qualifying examination must be passed before the student is admitted to candidacy. The subject matter of the examination will include only material ordinarily covered in undergraduate college physics courses, but the student will be expected to handle this material on a reasonably mature level.

Each candidate is expected to have completed Physics 304 or its equivalent. The three units of work offered for the degree will ordinarily include one unit of experimental physics and at least one graduate seminar in theoretical physics. The paper will usually consist of a report on work done in connection with the unit of experimental physics.

The M.A. examination is a one-hour oral examination.

Program and Examination for the Ph.D. Each candidate must have completed Physics 304 or its equivalent and have passed the oral qualifying examination described above before being recommended for candidacy.

The Preliminary Examination is intended to test the candidate's general background and to determine whether this background is broad and deep enough to serve as a preparation for original research work in a specialized field. In general, two years of full or part-time graduate work should prepare the student for this examination and candidates for the Ph.D. are urged to submit themselves for examination at this stage of their work, unless informed that weaknesses in their undergraduate preparation make a delay desirable. The examination will consist of two four-hour written examinations, one problem

set, and an oral examination lasting approximately one hour. Each of the two four-hour examinations will cover one of the following fields of physics, to be chosen by the Department: (1) Classical Mechanics, including Relativity. (2) Thermodynamics and Statistical Mechanics. (3) Electricity and Magnetism. (4) Wave Phenomena, including both Optical and Acoustical Waves. (5) Quantum Mechanics. (6) Atomic and Nuclear Structure. The student devotes approximately 12 hours to direct work on the problem set over a three-day period. Any books, periodicals, notes, etc. may be used in connection with the problem set. The oral examination is devoted to general physics.

Each full-time graduate student is expected to carry on some experimental work each year. Unless the candidate has demonstrated adequate acquaintance with experimental physics in other ways, the research leading to the dissertation must be, at least in part, experimental.

SEMINARS

One or two graduate seminars in theoretical physics are offered each year. In addition, a seminar in experimental physics is arranged individually for students desiring it, and generally serves as an introduction to a research problem.

Mr. Michels, Miss Hoyt, Mr. Pruett: *Experimental Physics*.

Theoretical Physics

Mr. Pruett:

1958-1959: *Electromagnetic Theory*. Maxwell's Equations, applications to waves subject to various boundary conditions, transmission lines, wave guides, radiating systems. Prerequisite: An advanced undergraduate course in Electricity and Magnetism or in Theoretical Physics.

Mr. Michels:

1958-1959: *Physics of the Solid State*. Classification and characteristics of solids, theory of mechanical, electrical, thermal and magnetic properties. Prerequisites: Quantum Mechanics and Electromagnetic Theory. Either may be taken concurrently.

Mr. Pruett:

1959-1960: *Quantum Mechanics*. Necessity for the quantum hypothesis. The Schroedinger and Heisenberg formulations with applications in atomic structure. The Dirac approach with applications to Relativistic Electron

Theory and the Quantum Theory of Radiation. Prerequisite: An advanced undergraduate course in Mechanics or in Theoretical Physics.

Miss Hoyt:

1959-1960: *Chemical Physics*. Chemical and phase equilibria, interatomic and intermolecular forces, chemical bonding, molecular structure. Prerequisite: Quantum Mechanics.

Mr. Pruett:

1960-1961: *Nuclear Physics*. An introductory study of classical nuclear physics followed by applications of Quantum Mechanics to nuclear problems and associated high energy phenomena. Some Quantum Electrodynamics and Meson Theory will be included. Prerequisite: Quantum Mechanics or its equivalent.

Colloquium. All members of the Department and all graduate students meet weekly for the discussion of current problems in physics.

SELECTED UNDERGRADUATE COURSES

- 201a. *Introduction to Electricity and Magnetism*: Miss Hoyt.
- 201b. *Introduction to Optics*: Mr. Pruett.
- 301a. *Classical and Statistical Mechanics*: Mr. Michels.
- 302b. *Atomic and Nuclear Structure*: Mr. Michels.
- 304. *Introduction to Theoretical Physics*: Miss Hoyt.
- 305c. *Physical Measurements*: Mr. Michels and Miss Hoyt.
- [351.* *Application of Physics to Biology and Chemistry*: Miss Hoyt.]

Political Science

*The Caroline McCormick Slade Department
of Political Science*

PROFESSOR:	ROGER HEWES WELLS, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	PETER BACHRACH, PH.D. GERTRUDE C. K. LEIGHTON, A.B., LL.B.
ASSISTANT PROFESSOR:	MELVILLE T. KENNEDY, JR., PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. Good undergraduate training in Political Science and related subjects.

Major and Allied Fields. The major fields in Political Science are Political Theory, Comparative Government, American Government and Constitutional Law, International Law and Organization and Public Administration. Allied fields may be chosen in Anthropology and Sociology, Economics, History, Philosophy or Psychology. Candidates for the Ph.D. are expected to prepare themselves in four fields, one of which may be an allied field.

Language Requirements. Two modern languages are tested by written examinations. The M.A. language examinations are of the general or special type; those for the Ph.D. are of the special type.

Program and Examination for the M.A. The program consists of three units of work in Political Science, but a unit from an allied field may be substituted for one of these. The Final Examination is written.

Program and Examination for the Ph.D. Candidates are expected to offer four fields, one of them being the field in which the dissertation is done. The other three fields are tested by preliminary written and oral examinations. The fourth field and the dissertation are covered in the Final Oral Examination.

SEMINARS

Seminars are offered in the major fields of Political Science. Those which are not bracketed are scheduled for 1958-1959.

Mr. Wells:

Comparative Government: Problems of Federalism.
[*Topics in Western Political Thought.*]
[*Problems of Public Administration.*]

Mr. Bachrach:

American Constitutional Law.

Miss Leighton:

The World Community and Law.

Mr. Kennedy:

Topics in Chinese Political and Social Development:
1911-1949.

Journal Club. Students are expected to attend the History, Economics and Political Science Journal Club. This meets from time to time during the year to discuss research in progress, recent books and other topics of scholarly interest.

SELECTED UNDERGRADUATE COURSES

306a. *Law and Society*: Miss Leighton.

307b. *The Problem of Power in Contemporary Society*: Mr. Bachrach.

Psychology

PROFESSOR:

RACHEL DUNAWAY COX, PH.D.

ASSOCIATE PROFESSORS:

MORTON EDWARD BITTERMAN, PH.D.,
Chairman

DONALD ROBERT BROWN, PH.D.

ROBERT SIMON DAVIDON, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. Undergraduate training in Psychology is recommended, but outstanding applicants with training only in related fields may be accepted. Students who have not majored in Psychology as undergraduates usually will find it necessary to devote a substantial portion of the first year to undergraduate courses. All applicants residing in the United States at the time of application must submit a score on the Miller Analogies Test.

Major and Allied Subjects. The Department offers broad training in Psychology, with opportunity for specialized experience in the principal areas of application. Work in Psychology may be coordinated with work in one of the following allied areas: Anthropology, Biology, Education, Mathematics, Philosophy, Political Science, Physics, and Sociology. Students interested primarily in Child Psychology normally major in Education.

Language Requirements. Candidates for the M.A. must pass an examination either of the general or the special type in one of the following languages: French, German, Russian. (Only one language is necessary because of the requirement in Statistics

and Experimental Design.) Candidates for the Ph.D. must pass examinations of the special type in two of the three languages.

Program and Examinations for the M.A. Each new student may be asked to take an assessment examination in Psychology. If performance on this examination warrants, the student is admitted to graduate seminars. If it does not, the student is asked to complete his preparation at the undergraduate level. Sometime before final approval of the Master's paper, each candidate must pass a written examination in Statistics and Experimental Design. The oral Final Examination, one hour in length, deals with the Master's paper and related topics.

Program and Examination for the Ph.D. Candidates are expected to devote a large portion of their time to supervised research. The Preliminary Examination consists of five written papers, one in each of the following areas: Sensation and Perception, Learning and Thinking, Personality and Social Psychology, Tests and Measurements, and History of Psychology. A qualifying examination in Statistics and Experimental Design precedes the Preliminary Examination. The oral Final Examination deals with the dissertation and related topics. Students preparing for clinical work meet the same requirements as all other students and, in addition, devote one year to an internship in an approved setting.

SEMINARS AND GRADUATE COURSES

The needs of the students determine which seminars and graduate courses are offered each year. Those offered most often are listed below.

Mr. Bitterman:

Learning Theory.

Comparative Psychology.

Physiological Psychology.

Mr. Brown:

Personality.

Psychopathology.

Emotion and Motivation.

Social Psychology.

Mrs. Cox:

Advanced Clinical Evaluation.

Problems in Child Development.

Mr. Davidon:

History of Psychology.

Perception.

Conceptual Processes.

Advanced Statistics.

SELECTED UNDERGRADUATE COURSES

- 201b. *Comparative Psychology*: Mr. Bitterman.
- 204a. *Experimental Methods and Statistics*: Mr. Davidon.
- 205b. *Perception*: Mr. Davidon.
- 302a. *Psychology of the Normal Personality*: Mr. Brown.
- 302b. *Psychology of the Abnormal Personality*: Mr. Brown.
- 303a. *Learning and Thinking*: Mr. Bitterman.
- 304b. *Clinical Evaluation and Measurement*: Mrs. Cox.

Russian

ASSOCIATE PROFESSOR: FRANCES DE GRAAFF, PH.D.,
Chairman

PROFESSOR OF
ENGLISH: BETTINA LINN, M.A.

The Department of Russian does not at present provide instruction in Russian as a major subject for the M.A. or the Ph.D. In various departments Russian is accepted as an allied subject at least for the M.A.

UNDERGRADUATE COURSES

1. *Elementary Russian*: Miss de Graaff.

The basic grammar is learned and enough vocabulary to enable the student to speak and understand simple Russian and to read simple texts.

101. *Intermediate Russian*: Miss de Graaff.

Grammar review and composition. Introduction to the Russian literary language. Plays, novels and some contemporary political material are read.

201. *Readings in Russian Literature*: Miss de Graaff.

Representative writers of the nineteenth century. Conducted mostly in Russian.

[202.* *General Readings in Russian.*]

Primarily intended for students who want a good reading knowledge of the language but are not majoring in Russian. The reading texts cover a wide variety of subject matter, such as history, economics, politics, science, as well as literature. Some lectures in Russian about the cultural background of Russia are included, with oral reports by the students and discussion of specific topics in Russian. Prerequisite: two years of Russian.

[203.* *Russian Literature in Translation: Miss Linn.*]

The leading Russian writers of the nineteenth century in translations. Students registering for the course should read in the preceding summer the following novels: Dostoevsky's *Crime and Punishment*, Tolstoi's *War and Peace*, and two of Turgenev's novels.

An advanced course, given in Russian, is selected from the following:

- 301. *Russian Poetry of the Nineteenth Century*: Miss de Graaff.
- 302. *Pushkin and His Time*: Miss de Graaff.
- 303. *Russian Literature of the Twentieth Century*: Miss de Graaff.
- 304. *Social Trends in Nineteenth Century Russian Literature*: Miss de Graaff.

Social Work and Social Research

*The Carola Woerishoffer Graduate Department
of Social Work and Social Research*

PROFESSOR:	KATHERINE D. K. LOWER, PH.D., <i>Director of the Department</i>
ASSOCIATE PROFESSORS:	HERTHA KRAUS, PH.D. BERNARD ROSS, M.S.S., PH.D. MARY MARGARET ZENDER, M.A., M.S.S.
ASSISTANT PROFESSOR:	GEORGE K. LEVINGER, PH.D.
LECTURERS:	TERESA P. DOMANSKI, M.A., M.S.S. MURIEL JANET GAYFORD, M.S.P.A. RUTH OLIVER STALLFORT, M.S. JEANNE L. WERNTZ, PH.D.
SPECIAL LECTURERS:	WALTER C. KLINGENSMITH, M.D. FERDINAND A. BONAN, M.D. ARTHUR NOYES, M.D. ANDREW WATSON, M.D. ROBERT PAUL, M.D.

Bryn Mawr awards the degrees* of Doctor of Philosophy and Master of Social Service in the Graduate Department of Social Work and Social Research. The Department is open to qualified graduates in liberal arts of colleges or universities of recognized standing.

Prerequisites. Psychology and the social sciences, including Economics, Political Science, History, Sociology and Anthropology, provide basic preparation. At least one general course in each field is important, as well as concentration in one as a major field. A basic course in Statistics is also desirable. In general, applicants for the Ph.D. are expected to have completed work for a Master's degree, or its equivalent, in social work.

* The prerequisites and program required for the degree of Master of Social Service are described on pp. 29-30. The statement here refers only to the Ph.D. in Social Work and Social Research.

Major and Allied Fields. The major and allied fields may be selected from the field of Social Work. At the same time, some work in one of the allied fields of Sociology, Psychology, Anthropology or Economics, selected with a view to its contribution to the major field of the student's interest, is required. For the degree, substantial work in Statistics is also required.

Language Requirements. By special action of the Faculty, a reading knowledge of only one language is required for the Ph.D. in Social Work. The language required is French, but in special cases another language may be substituted.

Program and Examinations. The program of study is individually planned to cover major and allied fields. Seven units of work will normally be suggested as a minimum. The Preliminary Examinations in major and allied fields consist of four written papers and an oral examination testing the candidate's general knowledge of the fields.

A *Bulletin* of the Department is issued biennially, containing descriptions of requirements and courses offered. A copy may be obtained by writing to the Director of the Department.

Sociology and Anthropology

PROFESSOR:	FREDERICA DE LAGUNA, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR:	EUGENE V. SCHNEIDER, PH.D. ¹
VISITING LECTURER:	EDWARD TIRYAKIAN, PH.D.
LECTURER:	EDWARD B. HARPER, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. A good undergraduate preparation in Sociology and/or Anthropology. Some undergraduate training in History, or Psychology, or in another social science, is also desirable. Students whose undergraduate training is not entirely adequate may be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

1. On sabbatical leave for semester II, 1958-1959.

Major and Allied Subjects. Students will specialize in either Sociology or Anthropology, but will be expected to do some work in the other field. For other allied subjects, see the special requirements for the Ph.D. in Anthropology and for the Ph.D. in Sociology.

Language Requirements. Candidates for the Ph.D. in either Sociology or Anthropology, and for the M.A. in Anthropology, must offer two modern languages, preference being given to German as one of these. For the M.A. in Sociology, one modern language and Statistics may be offered instead of two languages. The languages are tested by the special type of examination.

Program and Examination for the M.A. The program consists of three units of work, of which one is usually taken in the allied field within the Department. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

Program and Examinations for the Ph.D. All students are expected to take the equivalent of at least one year's graduate work at another institution approved by the Department. (For exchange arrangements with other institutions, see page 24.) The Preliminary Examinations will consist of four three-hour written papers and an oral examination of one hour.

The Preliminary Examinations for candidates for the *Ph.D. in Anthropology* will be in (1) Anthropological Theory and History of Anthropology, (2) the allied field within the Department, such as Sociological Theory, Comparative Social Institutions, etc., or an allied field outside the Department, such as Social Psychology, (3) and (4) two examinations in more specialized fields in Anthropology, such as Primitive Religion, Cultural Dynamics, Ethnography or Archaeology of one major Culture Area, etc. In addition, students will be expected to be familiar with the principles of two of the following subjects: Physical Anthropology and/or Human Paleontology, Prehistoric or American Archaeology, Linguistics. These requirements may be satisfied by courses taken at any institution approved by the Department, or competence may be tested by examination. The Preliminary Examinations for candidates for the *Ph.D. in Sociology* will be in (1) Sociological Theory, (2) Comparative Social Institutions, (3) an allied field within the Department, such as Anthropological Theory, Cultural Dynamics, etc., or an allied field outside the

Department, such as Social Psychology, Economics, Political Science, History, (4) a specialized subject within the field of Sociology. In addition, the student will be expected to be familiar with Statistics and the methods of Social Research.

SEMINARS AND GRADUATE COURSES

Depending upon the needs of the students these may be offered either as full year courses (1 unit of credit), or as semester courses ($\frac{1}{2}$ unit of credit). The seminars offered are selected from such topics as the following:

Miss de Laguna:

- Primitive Economics.*
- Primitive Religion.*
- American Indian Culture History.*
- Cultural Dynamics.*
- Culture and Personality.*

Mr. Schneider:

- Sociological Theory.*
- Comparative Social Institutions.*
- Sociology of Knowledge.*
- Dynamics of Social Change.*
- Social Stratification and Minority Groups.*

Social Psychology—see Psychology.

Social Research—see Social Work and Social Research.

SELECTED UNDERGRADUATE COURSES

- 203a. *Primitive Culture*: Mr. Harper.
- 205b. *Primitive Society*: Mr. Harper.
- 310. *Social and Cultural Theory*: Miss de Laguna, Mr. Schneider.

Spanish

DEAN OF THE COLLEGE:	DOROTHY NEPPER MARSHALL, PH.D.
LECTURERS:	JOAQUÍN GONZÁLEZ-MUELA, PH.D. WILLARD F. KING, PH.D.
VISITING LECTURERS:	VICENTE LLORENS, <i>Lic. F.L.</i> EUGENIO FLORIT, <i>D. en D.</i>

Special Requirements for Graduate Work
(for the general requirements, see pp. 25-30)

Prerequisites. An undergraduate major in Spanish; representative reading from Spanish Literature of the Middle Ages, Golden Age and Contemporary Period. Spanish-American Literature may be offered in addition.

Allied Subjects. Any literature, ancient or modern, including Mediaeval Latin Literature; European or Spanish-American History; Classical or Romance Philology.

Language Requirements. For the M.A. two romance languages, other than Spanish, or one romance language and German, to be tested by a general paper. For the Ph.D. German and French to be tested by a special paper; in special cases the Department may accept other languages. The Ph.D. candidate's preparation must give evidence of adequate knowledge of Latin; in cases when the student's preparation is insufficient she will have to include the study of Latin in her graduate program.

Program and Examination for the M.A. The program consists of two units of graduate work in Spanish and a third unit, graduate or undergraduate, in an allied field. Before admission to the Final Examination candidates must prove their ability to speak Spanish. The Final Examination consists of a three-hour written part and an oral of one hour.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. Suitable related fields should be discussed as early as possible with the member of the Department with whom the candidate plans to work on her dissertation.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study. Normally the same seminar will not be given two years in succession. Two from among the following will be given every year.

Mr. González-Muela:

Modern Spanish Poetry.

Golden Age Prose.

Mr. Llorens [1958-1959]:

Spanish Romanticism.

Mr. Florit [1958-1959]:

Spanish-American Literature.

SELECTED UNDERGRADUATE COURSES

[302b. *The Spanish Lyric.*]

303. *The Spanish Novel of the Nineteenth and Twentieth Centuries:* Mrs. Marshall, Mrs. King.

304a. *The Age of Cervantes:* Mrs. King.

304b. *Spanish Drama of the Golden Age:* Mr. González-Muela.

[305a. *Spanish Literature of the Eighteenth Century.*]

[305b. *Spanish Literature of the Middle Ages.*]

[306. *Spanish Prose of the Golden Age.*]

[307. *Spanish Thought and Essay of the Nineteenth and Twentieth Centuries.*]

How to Get to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43), turning right at Pa. #23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues and take the next left (Yarrow Street), proceeding one block to the College, entering at Goodhart Hall gate on the right.

By air: Passengers arrive at the Philadelphia International Airport and can use the airport limousine to Philadelphia or take a taxi directly to Bryn Mawr, a distance of 14 miles.

To Make a Bequest to Bryn Mawr

FORM FOR UNRESTRICTED GIFT

I give and bequeath to the Trustees of Bryn Mawr College, a Pennsylvania corporation located at Bryn Mawr, Pennsylvania, the sum of dollars as an unrestricted gift.

FORM FOR GIFT AS ADDITION TO GENERAL ENDOWMENT

I give and bequeath to the Trustees of Bryn Mawr College, a Pennsylvania corporation located at Bryn Mawr, Pennsylvania, the sum of dollars, which sum shall be added to the general, unrestricted permanent endowment funds of the College, so that the income derived from the principal of this bequest may be used for general College purposes.

FORM FOR GIFT AS ADDITION TO EXISTING TRUST OR FUND

I give and bequeath to the Trustees of Bryn Mawr College, a Pennsylvania corporation located at Bryn Mawr, Pennsylvania, the sum of dollars, which sum shall be added to the principal of the XYZ Memorial Fund heretofore created by and now administered by the College. The additional income of the Fund derived from this bequest shall be applied in accordance with the terms under which the XYZ Memorial Fund was established.

For those considering establishing a separate trust fund for the accomplishment of a specific purpose, information may be obtained from the President of the College or from the Committee on Bequests, Bryn Mawr College, Bryn Mawr, Pennsylvania.



BRYN MAWR

THE GRADUATE SCHOOL 1958-1959

BRYN MAWR

COLLEGE CALENDAR

UNDERGRADUATE COURSES 1958-1959

Bryn Mawr College Calendar

UNDERGRADUATE COURSES

ISSUE FOR THE SESSION OF

1958-1959

AUGUST 1958

Volume LI

Number 3

Visitors to the College are welcome, and when the College is in session student guides are available to show visitors the campus. The College offices are open Monday through Friday from nine until five and on Saturdays from nine until one. From mid-June until after Labor Day the offices are closed on Saturdays.

Whenever possible, visitors are urged to write in advance for appointments. Prospective students are encouraged to secure information about the College from local College Representatives. Their names and addresses are listed at end of book.

CORRESPONDENCE

The Post Office address is Bryn Mawr College, Bryn Mawr, Pennsylvania.

Correspondence regarding the following subjects should be addressed to:

The President

General interests of the College

The Dean

Academic work, personal welfare and health of the students

The Director of Admissions

Admission to the Undergraduate School and entrance scholarships

The Dean of the Graduate School

Admission to the Graduate School and graduate scholarships

The Director of Halls

Rooms in the halls of residence

The Comptroller

Payment of bills

The Director of the Bureau of Recommendations

Recommendations for positions and inquiries regarding students' self-help

The Alumnae Secretary

Regional Scholarships and loan fund

BRYN MAWR COLLEGE CALENDAR. Published December, July, August and November by Bryn Mawr College, Bryn Mawr, Pa.

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Photographs

Air View of Campus; The Phebe Anna Thorne School in West House; Class on Merion Green; The M. Carey Thomas Library.

1958	1959	1960
S M T W T F S	S M T W T F S	S M T W T F S
JULY	JANUARY	JULY
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27 28 29 30 31 . . .	25 26 27 28 29 30 31	26 27 28 29 30 31 . .
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		JUNE
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		5 6 7 8 9 10 11
		12 13 14 15 16 17 18
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		26 27 28 29 30

College Calendar

1958-1959

1958

FIRST SEMESTER

September 25 (*Thursday*). Halls of residence open to entering class at 8 A.M.

Graduate Center open to resident graduate students

September 27 (*Saturday*). Halls of residence open to all returning undergraduate students at 8 P.M.

September 29 (*Monday*). Work of the 74th academic year begins at 8:45 A.M.

November 26 (*Wednesday*). Thanksgiving holiday begins after last class

December 1 (*Monday*). Thanksgiving holiday ends at 9 A.M.

December 18 (*Thursday*). Christmas vacation begins at 12:45 P.M.

1959

January 6 (*Tuesday*). Christmas vacation ends at 9 A.M.

January 16 (*Friday*). Last day of lectures

January 19 (*Monday*). Collegiate examinations begin

January 29 (*Thursday*). Collegiate examinations end

SECOND SEMESTER

February 2 (*Monday*). Work of the second semester begins at 9 A.M.

March 26 (*Thursday*). Spring vacation begins after last class

April 7 (*Tuesday*). Spring vacation ends at 9 A.M.

May 15 (*Friday*). Last day of lectures

May 18 (*Monday*). Collegiate examinations begin

May 29 (*Friday*). Collegiate examinations end

June 2 (*Tuesday*). Conferring of degrees and close of the 74th academic year

Academic Calendar is listed at end of book.

The Trustees of Bryn Mawr College

THOMAS RAEBURN WHITE, *President*

J. EDGAR RHODS

ELIZABETH GRAY VINING¹

Vice-Presidents

JOHN E. FORSYTHE
Treasurer

AGNES BROWN LEACH²
Secretary

J. TYSON STOKES
Assistant Treasurer

MARGARET TYLER PAUL³
Assistant Secretary

Trustees

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MILLCENT CAREY MCINTOSH⁴

JOHN E. FORSYTHE

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JOHN S. PRICE, III

C. CANBY BALDERSTON

ALLEN MCKAY TERRELL

AMOS JENKINS PEASLEE

Board of Directors

HENRY JOEL CADBURY, *Chairman*

ELEANOR LITTLE ALDRICH⁵

RICHARD MOTT GUMMERE

Vice-Chairmen

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Treasurer

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ELEANOR MARQUAND DELANOY⁸

J. EDGAR RHODS

AGNES CLEMENT INGERSOLL⁹

C. CANBY BALDERSTON

MARGARET NICHOLS HARDENBERGH¹⁰

FREDERIC C. SHARPLESS

Alumnae Director, 1954-1959

ELIZABETH GRAY VINING¹

MARY SIMPSON GOGGIN

HENRY JOEL CADBURY

Alumnae Director, 1955-1960

JOHN E. FORSYTHE

LELIA WOODRUFF STOKES¹¹

JOHN S. PRICE, III

Alumnae Director, 1956-1961

ALLEN MCKAY TERRELL

BARBARA COLBRON

AMOS JENKINS PEASLEE

Alumnae Director, 1957-1962

KATHARINE ELIZABETH MCBRIDE

JANE YEATMAN SAVAGE¹²

ELEANOR LITTLE ALDRICH⁵

Alumnae Director, 1958-1963

MARION EDWARDS PARK, *by invitation*
President Emeritus of Bryn Mawr College

NANCY HOUGH SMITH, *by invitation*¹³
President of the Alumnae Association

Standing Committees of the Board of Directors for 1958

Executive Committee

MR. RHOADS, *Chairman*
MR. WHITE, *ex officio*
MR. CADBURY, *ex officio*
MRS. ALDRICH
MRS. DELANOY
MR. FORSYTHE
MRS. GORDAN
MRS. LEACH
MISS MCBRIDE
MRS. MCINTOSH
MR. STOKES

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MRS. GORDAN
MRS. HARDENBERGH
MISS MCBRIDE
MR. PEASLEE
MR. STOKES

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MR. FORSYTHE, *Chairman*
MR. WHITE, *ex officio*
MRS. JONES
MRS. LEACH
MR. PRICE
MRS. SAVAGE
MR. STOKES
MR. TERRELL

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MISS MCBRIDE, *Chairman*
MRS. ALDRICH
MRS. GORDAN
MR. GUMMERE
MRS. SAVAGE
MRS. VINING

Religious Life Committee

MISS MCBRIDE, *Chairman*
MR. CADBURY
MRS. INGERSOLL
MRS. MCINTOSH
DR. SHARPLESS
MRS. VINING

-
1. Mrs. Morgan Vining
 2. Mrs. Henry Goddard Leach
 3. Mrs. Samuel H. Paul
 4. Mrs. Rustin McIntosh
 5. Mrs. Talbot Aldrich
 6. Mrs. John D. Gordan, Jr.
 7. Mrs. Russell K. Jones

8. Mrs. Douglas Delanoy
9. Mrs. C. Jared Ingersoll
10. Mrs. Clarence M. Hardenbergh
11. Mrs. Francis J. Stokes
12. Mrs. Ernest C. Savage
13. Mrs. E. Baldwin Smith

Faculty and Staff

ACADEMIC YEAR, 1958-1959

KATHARINE ELIZABETH MCBRIDE, PH.D. (Bryn Mawr College), LL.D., L.H.D., Sc.D., *President of the College*¹

MARION EDWARDS PARK, PH.D. (Bryn Mawr College), LL.D., *President Emeritus of the College*

DOROTHY NEPPER MARSHALL, PH.D. (Bryn Mawr College), *Dean of the College and Acting President (Semester II)*

ELEANOR A. BLISS, Sc.D. (Johns Hopkins University), Sc.D., *Dean of the Graduate School*

ANNIE LEIGH BROUGHTON, M.A. (Bryn Mawr College), *Dean of Freshmen and Director of Admissions*

MABEL LOUISE LANG, PH.D. (Bryn Mawr College), *Associate Professor of Greek and Acting Dean (Semester II)*

MARGARET TYLER PAUL, A.B. (Bryn Mawr College), *Assistant to the President*

JANET MARGARET AGNEW, B.L.S., M.A. (University of Manitoba), *Librarian*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

ELIZABETH HUMESTON, M.D. (Cornell University), *College Physician*

RHYS CARPENTER, PH.D. (Columbia University), Litt.D., *Professor Emeritus of Classical Archaeology*

REGINA KATHARINE CRANDALL, PH.D. (University of Chicago), *Professor Emeritus of English Composition*

GRACE MEAD ANDRUS DE LAGUNA, PH.D. (Cornell University), *Professor Emeritus of Philosophy*

MAX DIEZ, PH.D. (University of Texas), *Professor Emeritus of German Literature*

1. On leave of absence for semester II, 1958-1959.

- CHARLES GHEQUIERE FENWICK, PH.D. (Johns Hopkins University), LL.D., *Professor Emeritus of Political Science*
- GRACE FRANK, A.B. (University of Chicago), *Professor Emeritus of Old French*
- HELEN TAFT MANNING, PH.D. (Yale University), LL.D., *Professor Emeritus of History*
- CORNELIA LYNDE MEIGS, A.B. (Bryn Mawr College), *Professor Emeritus of English Composition*
- MARY HAMILTON SWINDLER, PH.D. (Bryn Mawr College), LL.D., *Professor Emeritus of Classical Archaeology*
- LILY ROSS TAYLOR, PH.D. (Bryn Mawr College), LITT.D., *Professor Emeritus of Latin*
- ANNA PELL WHEELER, PH.D. (University of Chicago), Sc.D., *Professor Emeritus of Mathematics*
- THOMAS ROBERT SHANNON BROUGHTON, PH.D. (Johns Hopkins University), *Professor of Latin, Secretary of the Faculty*
- HORACE ALWYNE, F.R.M.C.M. (Royal Manchester College of Music), *Professor Emeritus of Music and Visiting Professor*
- ERNST BERLINER, PH.D. (Harvard University), *Professor of Chemistry*
- RICHARD BERNHEIMER, PH.D. (University of Munich), *Professor of History of Art, on joint appointment with Haverford College**
- L. JOE BERRY, PH.D. (University of Texas), *Professor of Biology*
- ELEANOR A. BLISS, Sc.D. (Johns Hopkins University), Sc.D., *Dean of the Graduate School and Professor of Biology*
- SAMUEL CLAGGETT CHEW, PH.D. (Johns Hopkins University), LITT.D., *Professor Emeritus of English Literature and Visiting Professor*
- RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), *Professor of Education and Psychology*

* Deceased May 29, 1958.

- FREDERICA DE LAGUNA, PH.D. (Columbia University), *Professor of Anthropology*
- LINCOLN DRYDEN, PH.D. (Johns Hopkins University), *Professor of Geology*
- JOSÉ MARÍA FERRATER MORA, *Licenciado en Filosofía* (University of Barcelona), *Professor of Philosophy*
- MARY SUMMERFIELD GARDINER, PH.D. (Bryn Mawr College), *Professor of Biology*
- FELIX GILBERT, PH.D. (University of Berlin), *Professor of History*
- MARGARET GILMAN, PH.D. (Bryn Mawr College), *Eunice M. Schenck 1907 Professor of French**
- STEPHEN JOSEPH HERBEN, B.LITT., PH.D. (Princeton University), *Professor of English Philology*
- JOSHUA C. HUBBARD, PH.D. (Harvard University), *Professor of Economics*
- MYRA RICHARDS JESSEN, PH.D. (Bryn Mawr College), *Professor of German*
- RICHMOND LATTIMORE, PH.D. (University of Illinois), LL.D., *Paul Shorey Professor of Greek*
- MARGUERITE LEHR, PH.D. (Bryn Mawr College), *Professor of Mathematics*
- HYWEL DAVIS LEWIS, M.A., B.LITT. (Oxford University), *Visiting Professor of Philosophy*
- BETTINA LINN, M.A. (Bryn Mawr College), *Margaret Kingsland Haskell Professor of English*
- ANGELINE HELEN LOGRASSO, PH.D. (Radcliffe College), *Professor of Italian*
- KATHERINE D. K. LOWER, PH.D. (University of Wisconsin), *Professor of Social Work and Social Research*

* Deceased May 27, 1958.

- GEDDES MACGREGOR, B.D., LL.B. (University of Edinburgh), D.Phil. (Oxford), *D.ès L.* (University of Paris), *Rufus M. Jones Professor of Philosophy and Religion*¹
- BERTHE MARIE MARTI, Ph.D. (Bryn Mawr College), *Professor of Latin*
- FRITZ MEZGER, Ph.D. (University of Berlin), *Professor of Germanic Philology*
- AGNES KIRSOPP LAKE MICHELS, Ph.D. (Bryn Mawr College), *Professor of Latin*
- WALTER C. MICHELS, Ph.D. (California Institute of Technology), *Marion Reilly Professor of Physics*
- MILTON CHARLES NAHM, B.Litt., Ph.D. (University of Pennsylvania), *Professor of Philosophy*
- MILDRED BENEDICT NORTHROP, Ph.D. (Columbia University), *Professor of Economics*²
- JANE MARION OPPENHEIMER, Ph.D. (Yale University), *Professor of Biology*
- JOHN CORNING OXTOBY, M.A. (University of California), *Professor of Mathematics*
- WILLIAM J. ROACH, Ph.D. (University of Chicago), *Visiting Professor of Old French*
- CAROLINE ROBBINS, Ph.D. (University of London), *Professor of History*
- PAUL SCHRECKER, Ph.D. (University of Berlin), LL.D., *Visiting Professor of Philosophy*
- JOSEPH CURTIS SLOANE, M.F.A., Ph.D. (Princeton University), *Professor of History of Art*³
- ALEXANDER COBURN SOPER, III, M.F.A., Ph.D. (Princeton University), *Professor of History of Art*⁴
- ARTHUR COLBY SPRAGUE, Ph.D. (Harvard University), *Mary E. Garrett Alumnae Professor of English Literature*

1. On leave of absence for the year 1958-1959.

2. On sabbatical leave for the year 1958-1959.

3. For semester I, 1958-1959.

4. On partial leave of absence for semester I, 1958-1959.

- K. LAURENCE STAPLETON, A.B. (Smith College), *Professor of English and of Political Theory*
- ISABEL SCRIBNER STEARNS, PH.D. (Bryn Mawr College), *Professor of Philosophy*
- EDWARD H. WATSON, PH.D. (Johns Hopkins University), *Professor of Geology*
- ROGER HEWES WELLS, PH.D. (Harvard University), *Professor of Political Science*
- MARY KATHARINE WOODWORTH, PH.D. (Bryn Mawr College), *Professor of English*
- DOROTHY WYCKOFF, PH.D. (Bryn Mawr College), *Professor of Geology*
- AGI JAMBOR, M.A. (Royal Academy of Budapest), *Lecturer and Professor-elect of Music and Director of Ensemble Groups*
- PETER BACHRACH, PH.D. (Harvard University), *Associate Professor of Political Science*
- MORTON SACHS BARATZ, PH.D. (Yale University), *Associate Professor of Economics*
- WARNER B. BERTHOFF, PH.D. (Harvard University), *Associate Professor of English*
- MORTON EDWARD BITTERMAN, PH.D. (Cornell University), *Associate Professor of Psychology*
- DONALD R. BROWN, PH.D. (University of California), *Associate Professor of Psychology*
- ROBERT S. DAVIDON, PH.D. (University of Pennsylvania), *Associate Professor of Psychology*
- FRANCES DE GRAAFF, PH.D. (University of Leyden), *Associate Professor of Russian, on joint appointment with Haverford College*
- ARTHUR P. DUDDEN, PH.D. (University of Michigan), *Associate Professor of History*
- ROBERT L. GOODALE, A.B., B.MUS. (Yale University), A.A.G.O., *Associate Professor of Music*

ROSALIE C. HOYT, PH.D. (Bryn Mawr College), *Associate Professor of Physics*

HERTHA KRAUS, PH.D. (University of Frankfurt), *Carola Woerishoffer Associate Professor of Social Work and Social Research*

HAROLD WILLIAM KUHN, PH.D. (Princeton University), *Associate Professor of Mathematics*¹

MABEL LOUISE LANG, PH.D. (Bryn Mawr College), *Associate Professor of Greek and Acting Dean (Semester II)*

HUGUES LEBLANC, PH.D. (Harvard University), *Associate Professor of Philosophy*¹

GERTRUDE C. K. LEIGHTON, A.B. (Bryn Mawr College), LL.B. (Yale University), *Associate Professor of Political Science*

MACHTELD JOHANNA MELLINK, PH.D. (University of Utrecht), *Associate Professor of Classical Archaeology*

JOHN R. PRUETT, PH.D. (Indiana University), *Associate Professor of Physics*

EUGENE V. SCHNEIDER, PH.D. (Harvard University), *Associate Professor of Sociology*²

JOACHIM H. SEYPPPEL, PH.D. (University of Rostock), *Associate Professor of German*

MARY MARGARET ZENDER, M.A. (Lawrence College), M.S.S. (Smith College), *Associate Professor of Social Work*

GEORGE L. ZIMMERMAN, PH.D. (University of Chicago), *Associate Professor of Chemistry*

JAMES W. FOWLE, PH.D. (Harvard University), *Associate Professor-elect of History of Art*

BERNARD ROSS, PH.D. (Michigan State University), *Associate Professor-elect of Social Work and Social Research*

RAYMOND F. BETTS, D.d'Univ. (University of Grenoble), PH.D. (Columbia University), *Assistant Professor of History*

1. On sabbatical leave for the year 1958-1959.

2. On sabbatical leave for semester II, 1958-1959.

- ROBERT HAWES BUTMAN, M.A. (University of North Carolina), *Assistant Professor of English on the Theresa Helburn Fund, and on joint appointment with Haverford College*
- ALEXANDER CAMBITOGLU, PH.D. (University of London), *Assistant Professor of Classical Archaeology*
- ROBERT L. CONNER, PH.D. (Indiana University), *Assistant Professor of Biology*
- MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*
- DAVID B. GREEN, PH.D. (Harvard University), *Assistant Professor of English*
- MICHEL GUGGENHEIM, PH.D. (Yale University), *Assistant Professor of French*
- DAVID JOSEPH HERLIHY, PH.D. (Yale University), *Assistant Professor of History*
- SYLVIA W. KENNEY, B.MUS., PH.D. (Yale University), *Assistant Professor of Music*
- GEORGE K. LEVINGER, PH.D. (University of Michigan), *Assistant Professor of Social Work and Social Research*
- ISABEL GAMBLE MACCAFFREY, PH.D. (Radcliffe College), *Assistant Professor of English*
- FRANK BRYANT MALLORY, PH.D. (California Institute of Technology), *Assistant Professor of Chemistry*
- MARIO MAURIN, PH.D. (Yale University), *Assistant Professor of French*
- MELVILLE T. KENNEDY, JR., PH.D. (Harvard University), *Assistant Professor-elect of Political Science*
- PHILIP KOCH, PH.D. (Harvard University), *Instructor and Assistant Professor-elect of French*
- JOSEPH VARIMBI, PH.D. (University of Pennsylvania), *Lecturer and Assistant Professor-elect of Chemistry*
- FRANCES BONDHUS BERLINER, PH.D. (Bryn Mawr College), *Part-time Lecturer in Chemistry*
- TERESA P. DOMANSKI, M.S.S. (Smith College School of Social Work), *Part-time Lecturer in Social Work*

- EUGENIO FLORIT, D.en D. (University of Havana), *Visiting Lecturer in Spanish for Semester I*
- MURIEL JANET GAYFORD, M.S.F.A. (Washington University), *Lecturer in Medical Social Work*
- RENÉ N. GIRARD, PH.D. (Indiana University), *Visiting Lecturer in French*
- JOAQUÍN GONZÁLEZ-MUELA, PH.D. (University of Madrid), *Lecturer in Spanish*
- MARCEL MARC GUTWIRTH, PH.D. (Columbia University), *Visiting Lecturer in French*
- EDWARD B. HARPER, PH.D. (Cornell University), *Lecturer in Sociology and Anthropology, on joint appointment with Haverford College*
- WILLARD F. KING, PH.D. (Brown University), *Lecturer in Spanish*
- VICENTE LLORENS, *Licenciado en Filosofía* (University of Madrid), *Visiting Lecturer in Spanish for Semester II*
- MARIANNE W. MARTIN, M.A. (Bryn Mawr College), *Lecturer in History of Art*
- ETHEL W. MAW, M.S. (University of Pennsylvania), *Part-time Lecturer in Education*
- SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director of the Phebe Anna Thorne School and Part-time Lecturer in Education*
- LOUIS SOLOMON, PH.D. (Harvard University), *Lecturer in Mathematics*
- RUTH OLIVER STALLFORT, M.S. (Simmons College School of Social Work), *Lecturer in Psychiatric Social Work*
- EDWARD TIRYAKIAN, PH.D. (Harvard University), *Visiting Lecturer in Sociology*
- ANNA TERESA TYMIENIECKA, PH.D. (University of Fribourg), *Lecturer in Philosophy*
- JEANNE L. WERNTZ, PH.D. (University of Pennsylvania), *Part-time Lecturer in Social Research*
- MAXINE WOOLSTON, PH.D. (Radcliffe College), *Lecturer in Economics*

- BARBARA CROSS, PH.D. (Radcliffe College), *Instructor in English*
- HOPE K. GOODALE, M.A. (Bryn Mawr College), *Part-time Instructor in Spanish*
- RAMONA T. LIVINGSTON, A.B. (William Jewell College), *Instructor in English*
- MARIE MORISAWA, M.A. (Wyoming University), *Instructor in Geology*
- MARGARET C. PEARCE, B.S. (University of Minnesota), *Part-time Instructor in English*
- HERTA STEPHENSON (University of Lausanne), *Part-time Instructor in German*
- ROBERT A. WALLACE, B.A. (Harvard University), *Instructor in English*
- MONIQUE BOLDRINI, *Lic. d'Anglais* (University of Aix-Marseille), *Part-time Instructor-elect in French*
- KATHERINE A. GEFFCKEN, M.A. (Bryn Mawr College), *Part-time Instructor-elect in Latin*
- MARY MAPLES, M.A. (Bryn Mawr College), *Part-time Instructor-elect in History on the Eloise Ruthven Tremain Memorial Fund*
- ROSAMOND KENT SPRAGUE, PH.D. (Bryn Mawr College), *Part-time Instructor-elect in Greek*
- Fritz JANSCHKA, *Akademischer Maler* (Akademie der Bildenden Künste), *Artist in Residence*
- CHARLES W. LUDINGTON, M.F.A. (Princeton University), *Director of Orchestra*
- ELIZABETH W. BANCROFT, A.B. (Vassar College), *Part-time Reader in English*
- ELIZABETH BOOTH, M.A. (Bryn Mawr College), *Part-time Assistant in Music*
- PRISCILLA CARNEY, A.B. (Wheaton College), *Part-time Assistant in Chemistry*
- ANNA CHAO, A.B. (Sweet Briar College), *Part-time Demonstrator in Biology*

- ISABEL ECHIKSON, M.A. (Bryn Mawr College), *Part-time Assistant in Chemistry*
- JANICE GORDON, M.A. (Bryn Mawr College), *Part-time Assistant in Chemistry*
- PHOEBE S. LEBOY, A.B. (Swarthmore College), *Part-time Assistant in Biology*
- NICHOLAS A. LONGO, A.B. (Johns Hopkins University), *Assistant in Psychology*
- VERONICA MAHLSTEDT, B.A. (Hunter College), *Part-time Assistant in Geology*
- ADELAIDE W. MAUCK, A.B. (Bryn Mawr College), *Part-time Assistant in Chemistry*
- JANE ROYLE MCCONNELL, Ph.D. (Bryn Mawr College), *Part-time Assistant in Biology*
- ANN S. MERRIAM, A.B. (Goucher College), *Part-time Assistant in Physics*
- MILLARD MIER, A.B. (Occidental College), *Part-time Assistant in Physics*
- SUE NUTTALL, A.B. (St. Lawrence University), *Part-time Assistant in Anthropology*
- SUZANNE PETERSON, B.A. (Wilson College), *Part-time Assistant in Chemistry*
- DORIS ANN REINOEHL, M.S. (Pennsylvania State University), *Part-time Assistant in Biology*
- DOROTHEA JENKINS RHEA, M.A. (Bryn Mawr College), *Part-time Assistant in Statistics*
- BRUNILDE SISMONDO, Ph.D. (Bryn Mawr College), *Curator of Slides and Part-time Assistant in Classical Archaeology*
- WANDA SPRINGER, A.B. (Oberlin College), *Part-time Assistant in Biology*
- MARTHA ELAINE WILLIAMS, M.A. (Bryn Mawr College), *Part-time Assistant in Philosophy*

Officers of Administration

- MARIAN CARTER ANDERSON, B.S. (Simmons College), *Recorder of the College*
- CAROL BIBA, A.B. (University of Wisconsin), *Director of Public Information*

LOUISE HODGES CRENSHAW, A.B. (Bryn Mawr College), *Director of the Bureau of Recommendations*

PAUL W. KLUG, C.P.A., B.S. (Temple University), *Comptroller*

CHARLOTTE BRANDON HOWE, M.A. (Radcliffe College), *Director of Halls and Head Warden*

MARGARET McCABE, M.A. (Bryn Mawr College), *Assistant to the Dean of Freshmen and the Director of Admissions*

CLARISSA WARDWELL PELL, *Executive Director of the Resources Committee*

HORACE T. SMEDLEY, *Superintendent of Buildings and Grounds*

Library

JANET MARGARET AGNEW, B.L.S., M.A. (University of Manitoba), *Head Librarian*

JANE WALKER, B.S. (Simmons College), *Head of Cataloguing Department*

ETHEL W. WHETSTONE, A.B., A.B.L.S. (University of North Carolina), *Head of Circulation Department*

SARAH C. BENHAM, A.B., M.S.L.S. (Western Reserve University), *Assistant in Cataloguing Department*

DOROTHY V. McGEORGE, A.B., B.S.L.S. (Drexel Institute), *Part-time Assistant in Acquisitions Department*

PAMELA G. REILLY, A.B., M.S.L.S. (Drexel Institute), *Assistant in Circulation Department*

YILDIZ VAN HULSTEYN, A.B., M.S.L.S. (Drexel Institute), *Assistant in Circulation Department*

Physical Education

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

ETHEL GRANT, *Instructor in Physical Education*

GLORIA SCHMIDT, M.A. (New York University), *Instructor in Physical Education*

JANET A. YEAGER, *Instructor in Physical Education*

Foreign Students

MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*

Halls of Residence

NANCY ELLEN BLACKWOOD, A.B. (Bryn Mawr College), *Warden of Pembroke East*

PATRICIA ONDERDONK, A.B. (Bryn Mawr College), *Warden of Denbigh*

FRANCES SHIRLEY, M.A. (Bryn Mawr College), *Warden of Merion*

MARGARET BECKER SMITH, A.B. (Goucher College), *Warden of Rhoads*

MONIQUE BOLDRINI, *Lic.d'Anglais* (University of Aix-Marseille), *Warden-elect of Wyndham*

JEAN ELDER, B.A. (University of Toronto), *Senior Resident-elect of the Graduate Center*

MILNOR ALEXANDER, M.A. (University of Pennsylvania), *Warden-elect of Rockefeller*

MARGARET HOOEY, B.A. (University of Toronto), *Warden-elect of Pembroke West*

DAPHNE KNIGHTS, B.A. (Victoria University), *Warden-elect of Radnor*

Health

ELIZABETH HUMESTON, M.D. (Cornell University), *College Physician*

FREDERIC C. SHARPLESS, M.D. (University of Pennsylvania School of Medicine), *General Consultant*

ISAAC SHARPLESS, M.D. (University of Pennsylvania School of Medicine), *Assistant College Physician*

HOWARD B. SMITH, M.D. (Jefferson Medical College), *Consulting Psychiatrist*

RICHARD G. LONSDORF, M.D. (University of Pennsylvania School of Medicine), *Consulting Psychiatrist*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

Phebe Anna Thorne School

SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director*

EVE BRILL, B.S. (Teachers College, Columbia University),
Teacher

GEORGIANNA ENGSTROM, A.B. (University of Minnesota), *Assistant Teacher*

Child Study Institute

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania),
Director

LOIS R. TABER, A.B. (Mt. Holyoke College), *Social Caseworker*

ELIZABETH WHEELER, M.S.S. (Bryn Mawr College), *Social Caseworker*

CORNELIA T. BIDDLE, A.B. (Bucknell University), *Part-time Social Caseworker*

ELSIE WAELDER, M.S.W. (Western Reserve University), *Part-time Social Caseworker*

LELIA BRODERSEN, M.A. (Temple University), *Psychologist*

ELEANOR BEATTY, M.A. (George Washington University), *Psychologist*

ANITA GRINNELL, M.S. (University of Pennsylvania), *Part-time Psychologist*

CONSTANCE GRANT, B.S. (University of Pennsylvania), *Remedial Reading Teacher*

MARGARET C. PEARCE, B.S. (University of Minnesota), *Remedial Speech Teacher*

JAMES G. DELANO, M.D. (Washington University Medical School), *Consulting Psychiatrist*

MARGARET DEALY, M.D. (Cornell University Medical College),
Consulting Psychiatrist

HERMAN STAPLES, M.D. (Hahnemann Medical College), *Consulting Psychiatrist*

MARY LOUISE LLOYD, M.A. (Yale University), *Psychological Assistant*

Introduction

BRYN MAWR COLLEGE was founded by a group of men and women belonging to the Society of Friends who were convinced that intelligent women deserve an education as rigorous and stimulating as that offered to men.

This concern about opportunity for women to study at the university level was first felt by Dr. Joseph Taylor, a New Jersey physician, who decided to give his estate to provide the land, the first buildings and the endowment for the new college. With much care Dr. Taylor chose the site, thirty-nine acres of land on a hill in Bryn Mawr, eleven miles west of Philadelphia. He supervised the erection of the first building and took part in formulating the plans that led to a new educational venture. This was the opening in 1885 of the first college for women with undergraduate instruction for the A.B. and graduate instruction for the M.A. and Ph.D. degrees in all departments.

The first president of Bryn Mawr College was James E. Rhoads, a retired physician and one of the Trustees responsible for the initial plans. The first dean was M. Carey Thomas, who devoted her life to securing for women the opportunity for higher education and the right to share in all the privileges and responsibilities of American citizenship. Miss Thomas succeeded to the presidency in 1893, after the resignation of Dr. Rhoads. In 1922, she was followed by Marion Edwards Park, already distinguished in the academic world for her scholarship in the classics and her ability as a teacher and administrator. The fourth president is Katharine Elizabeth McBride, who was elected to the presidency in 1942.

Since the early years of Bryn Mawr, the campus has grown from 39 to about 75 acres, new buildings have been added as required by additional students and by more complex undertakings in teaching and research, yet the College remains a compact unit for living and working.

Bryn Mawr has preserved the purpose and much of the tradition of its founders. It believes that intellectual enrichment and discipline provide a sound foundation for living. It believes in

the rights of the individual and in freedom to think and act as intelligent and responsible members of a democratic society.

By the terms of its charter Bryn Mawr College provides instruction in the liberal arts and sciences on both the undergraduate and graduate level. Members of the faculty usually combine graduate and undergraduate teaching. Teaching and research are found to complement each other, and the stimulation of investigation in the various fields of graduate study is reflected in all departments of undergraduate work. The undergraduate program emphasizes both depth and breadth of knowledge and understanding. No field is so broad that it cannot take advantage of the specialist's deep understanding; no specialty is so obscure that it may not profit from a breadth of perception.

Believing that a small college provides the most favorable opportunity for the students to participate actively in their own education, Bryn Mawr College limits the number of undergraduates to approximately six hundred students. And since diversity in background and training serves not only to stimulate discussion but also to develop an intelligent understanding of such diversity, the undergraduate enrolment includes students from various types of schools, private and public, foreign as well as American. The whole group, both graduate and undergraduate, is composed of students from all parts of the United States as well as students from many foreign countries.

The resources of Bryn Mawr as a small residential college are augmented by its participation with Haverford College and Swarthmore College in a plan which coordinates the facilities of the three institutions while preserving the individual qualities and autonomy of each.

Bryn Mawr College sponsors a broad cultural program which supplements the curriculum and enriches its community life. Various lectureships bring scholars and other leaders in world affairs to the campus for series of public lectures and for classes and conferences with the students. Such opportunities are provided by the six-week residence of the Mary Flexner Lecturer in the Humanities and of the Anna Howard Shaw Lecturer in the Social Sciences, and by various individual lecturers in many of the departments of the College. Each year a series of lectures on current national and international problems is arranged by the

Undergraduate Alliance for Political Affairs. The musical, dramatic and dance productions of the College are directed and arranged by the appropriate student organizations, often in co-operation with their counterparts in Haverford College, and with professional assistance from members of the faculty and staff. The Mrs. Otis Skinner Theater Workshop provides facilities for experimental theater work and a studio for painting and sculpture, where guidance and criticism are provided by the artist-in-residence.

Student organizations have complete responsibility for the many aspects of student activity. The large associations, to which every student belongs, provide a framework in which individuals and smaller groups function. The Self-Government Association legislates in matters of social and personal conduct, and its elected Executive Board has full responsibility for the executive and judicial functions of the organization. Through their Self-Government Association, the students share with the faculty the responsibility for the administration of the Academic Honor System. The Undergraduate Association coordinates the activities of the many specialized clubs and societies which are open to all and which provide opportunities for critical and creative efforts. The Interfaith Association with the guidance of the Committee on Religious Life of the Board of Directors and members of the Faculty plans the Chapel Services and takes the responsibility for giving students an opportunity to pursue and extend their religious interests. The Bryn Mawr League concerns itself with problems of social welfare and various branches of social service to the community at large and the Athletic Association plans the extra-curricular athletic program.

Opportunity for the cultivation of clear thinking and informed reasoning, for exercise in the privileges and responsibilities of community life, and for practice in the critical and creative arts should thus be part of the experience of the undergraduate student at Bryn Mawr. As she continues through the four undergraduate years, she should begin to know too the personal satisfactions and rewards that are the common heritage of scholars.

Admission

BRYN MAWR COLLEGE is interested in candidates of character and ability, who wish a liberal college education and are prepared for college work by a sound education in school. The College has found highly successful candidates among students of varied interests and talents who come from a wide range of schools and regions in the United States and abroad.

In its consideration of candidates the College looks for evidence of ability in the student's high school record, her rank in class and her College Board tests, and asks her high school principal for an estimate of her character, maturity and readiness for college.

The Director of Admissions welcomes correspondence and interviews with candidates, their parents and school advisers. College and Alumnae Association representatives in various sections of the country are glad to see candidates. Names and addresses are listed in the section, Alumnae Representatives.

PROGRAM OF SECONDARY SCHOOL STUDIES

Candidates are expected to complete a four-year secondary school course. The program of studies providing the best background for college work includes English, languages and mathematics carried through most of the school years and, in addition, history and a laboratory science. A school program giving excellent preparation for study at Bryn Mawr would be, for example, as follows: English grammar, composition and literature throughout four years; Mathematics, emphasizing basic algebraic, geometric and trigonometric concepts and deductive reasoning; a good foundation in one modern language and in Latin or Greek; some work in history and at least one course in science, preferably Biology, Chemistry or Physics. Elective subjects might be offered in, for example, History of Art, History of Music or Biblical studies to make up the total of 16 credits generally recommended for admission to the College.

Since school curricula vary widely, the College is fully aware that many applicants for admission will offer programs which

differ from the one described above. The College is glad to consider applications from students whose school programs have been different, provided that these have included continuity in the study of basic subjects.

APPLICATION FOR ADMISSION

Students are advised to apply for admission to Bryn Mawr before the end of the junior year in high school. Early registration allows time for consultation about school programs and makes sure that the student will receive up-to-date information about the College. Admitted candidates are assigned rooms in order of date of registration.

Only in exceptional circumstances will applications to the freshman class be accepted after January 31 of the student's senior year.

Application forms may be obtained from the Director of Admissions, Bryn Mawr College, Bryn Mawr, Pennsylvania. A fee of fifteen dollars must accompany each application and is not refundable. Application does not insure admission.

ENTRANCE TESTS

The Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board are required of all candidates with the exception of students who have been admitted to the universities of other countries. The Aptitude Test should be taken in January of the senior year in secondary school, and the Achievement Tests in March of that year. Bryn Mawr prefers that candidates offer Achievement Tests in English, in a foreign language, and in one of the following: Social Studies, one of the sciences, or in Intermediate or Advanced Mathematics. No special preparation, other than work well done in a good school, is required for successful performance on these tests. A trial run of the Scholastic Aptitude Test in March or May of a student's junior year is advised. Candidates will be notified in mid-May of the senior year as to whether or not they will be admitted to the College.

Candidates are responsible for registering with the College Entrance Examination Board for the tests. Information about the tests, test centers, fees and dates may be obtained by writing to College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey, or P.O. Box 27896, Los Angeles 27, California.

EARLY DECISION PLAN

A student who is applying for admission to Bryn Mawr College only, and to no other college, will be sent an earlier notice (about December 1) as to the action taken on her application, provided she follows the plan outlined below.

1. She must be recommended by her school as a strong candidate, and must take her *final* Scholastic Aptitude and three Achievement Tests (English and any two others) in March or May of the junior year.
2. After her school has reviewed the results of these tests together with her three-year high school record, she files, before October 1, in addition to a regular registration a statement obtained from the College that she is a candidate under the Early Decision Plan.
3. She will be notified by the College in early December either (1) that she will be admitted to Bryn Mawr the following autumn, provided her record continues to be good, or (2) that she is advised to transfer to the regular plan for admission, repeating the Scholastic Aptitude Test and three Achievement Tests in the spring of her senior year, and filing an application with at least one other college, or (3) that she should withdraw her application to Bryn Mawr.
4. A student who has been assured of admission by December 1 will be asked to make a deposit of \$200 by February 1 if she wishes to reserve a place in residence at Bryn Mawr College. This deposit will be deducted from her first semester bill.

ADVANCED PLACEMENT

Students who have carried advanced work in school may be admitted to one or more advanced courses in fields other than English in the freshman year if they have made honor grades on the Advanced Placement Tests of the College Entrance Examination Board. These tests are given at Board centers in May. No student will be given Advanced Placement in English Composition or Literature; but students who have had an advanced course in the History of English Literature may be permitted to substitute a second-year course for English 101. Students should also consult the Dean of Freshmen about the advisability of taking placement tests, given by the College during Freshman Week.

TRANSFER AND FOREIGN STUDENTS

Students are admitted on transfer from American and foreign colleges and universities approved by the College. To be admitted on transfer, a student must have an excellent school record and, in college work, at least a "B" average. A transfer applicant should submit to the College:

1. A letter explaining why she wishes to transfer. Plans for the major subject should be included.
2. A current catalogue of her own college, in which she has marked the courses taken.
3. Transcripts of her high school and college courses.
4. Official test reports from the College Entrance Examination Board on the Scholastic Aptitude Test and three Achievement Tests which the candidate may have taken previously.

Transfer candidates who have not taken these tests will be required to take only the Scholastic Aptitude Test in the March or May series. Information concerning this test and applications to take it may be obtained from the College Entrance Examination Board. (For address see page 25.)

Foreign students may substitute for the College Board tests evidence that they have been admitted to universities in their own countries. Those whose native language is not English must also present credentials attesting proficiency in English.

No credit will be given for work done elsewhere until the student has successfully completed a year's work at Bryn Mawr. To qualify for the A.B. degree, transfer students must complete two years of study here. Students of other colleges or universities who have failed to meet the prescribed standards of academic work, or who have been put on probation or suspended or excluded, will under no circumstances be admitted.

NON-MATRICULATED STUDENTS

Women over twenty-five years of age may be admitted as non-matriculated students. They are called "Hearers" and may take undergraduate courses without a matriculation examination after furnishing proof that they have at some time pursued the studies required for matriculation. Hearers are clearly differentiated from regularly matriculated students and must obtain permission from each instructor to attend classes, laboratories and examinations. They are not eligible for degrees and may receive only such certificates of collegiate study as their instructors see fit to give. They are charged the full tuition fee. No other special students are admitted to undergraduate courses.

Academic Facilities and Residence

THE LIBRARY

THE M. CAREY THOMAS LIBRARY, which contains over a quarter of a million volumes, serves the needs of advanced graduate students and faculty as well as the undergraduates. It is both a research and a study library. The periodicals in all subjects, of which about one thousand are currently received, contribute materially to the value of the collection.

The open-shelf system provides free access to the stacks. The Reference Room and Periodical Room provide convenient and ready access to standard works of reference and current periodicals.

The Quita Woodward Memorial Room has been planned for recreational reading. The collection provided for this purpose, now numbering about two thousand volumes, includes recent books in literature, art, religion and current affairs as well as many classics.

In the Rare Book Rooms, there are early printed books, manuscripts, first editions, fine press books, fine illustrated editions and association copies. Exhibitions of items selected from the library's own resources and of material lent by Friends of the Library are held here at intervals during the academic year. Here also is the Marjorie Walter Goodhart Mediaeval Library, a collection of incunabula given by Howard L. Goodhart, which numbers over nine hundred volumes. Consisting mainly of philosophical and theological works of the fifteenth century, it occupies a significant place among college library collections.

A large Reading Room modeled after the Great Hall in Wadham College, Oxford University, has individual desks for the undergraduate students. Additional work space is to be found in the Reserve Book Room, Reference Room, Art Study and the carrels in the West Wing. Twelve seminar rooms are reserved for the graduate students.

Haverford and Swarthmore Colleges and the libraries in Philadelphia are generous in making their resources available to students. The Philadelphia Bibliographical Centre and Union Library Catalogue situated at the University of Pennsylvania enable the student to locate easily the material in approximately one hundred and sixty libraries in the Philadelphia metropolitan area.

Each of the science departments at Bryn Mawr has its own library with adequate reading space providing ready accessibility to bound and current numbers of scientific journals, standard reference books and modern texts.

ART MUSEUM AND SLIDE COLLECTION

The collection of slides used in the Departments of Classical Archaeology and History of Art includes some 40,000 items, representing all fields of Western and Oriental art from pre-historic times to the present. It is supplemented by a collection of 35,000 photographs and color reproductions.

A small but valuable group of original works of art, available for study, include Greek and Roman vases, ancient coins, sculpture, Oriental pottery and scrolls, prints, and modern American and European paintings. The Ella Riegel Museum of Classical Archaeology contains the Densmore Curtis Collection presented by Clarissa Dryden, part of the Hoppin Collection, the Elizabeth Washburn King Collection of Classical Greek coins, and the Aline Abaecherli Boyce Collection of Roman Republican silver coins, as well as various gifts from friends of the College. For Far Eastern study the Chapin Collection of books, paintings, calligraphy, textiles and ceramics includes material from Korea as well as from China and Japan. Western art is variously represented by several small collections, including the Howard L. Gray Collection of Modern Prints and the Neuberger Collection of Contemporary American Paintings.

LABORATORIES

The Departments of Chemistry and Geology have their laboratories, libraries and classrooms in the Marion Edwards Park Hall. The Department of Biology is now located in a new building adjoining Park Hall. This is the second of three buildings which have been planned to provide in one unified

group ample space and modern facilities for the natural sciences and mathematics. Funds are being raised so that it will be possible to construct the building for Physics and Mathematics in the near future.

Physics, Mathematics and Psychology now occupy Dalton Hall, which will be released to provide for other departments when the Science Center is completed.

Both Dalton and the Science Center have facilities for graduate as well as undergraduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed by faculty and graduate students in particular research projects. On occasions this equipment is made available to advanced undergraduates who are working on honors problems.

In the present Science Center there are new laboratories for the use of radio-active materials, a glass-blowing shop, a laboratory for microphotography as well as the large mineral collection of the Geology Department. In Dalton Hall there is a machine shop in the charge of an expert machinist. There is also a student shop at the disposal of graduate students in Physics and seniors working on honors problems. In addition, there is a modest hot laboratory in which radio-active samples may be processed for use in connection with the programs of the various departments.

Each of the science departments has its own library including a large collection of scientific journals. The Geology Department also has a collection of over 25,000 maps on deposit from the United States Army Map Service.

Residence

HALLS OF RESIDENCE

There are on the campus nine halls of residence which provide full living accommodations for fifty to eighty-five students each, and one smaller hall, used as a language house for upperclassmen, housing seventeen students. Denbigh Hall, Merion Hall, Pembroke East, Pembroke West and Radnor Hall are named for counties in Wales, recalling the tradition of the early Welsh settlers of the area in which Bryn Mawr is situated. Rockefeller Hall is named for its donor, John D. Rockefeller, and Rhoads North and South for the first president of the College, James E.

Rhoads. Each hall is in the charge of a resident warden, an instructor or graduate student, who is also a member of the Dean's staff and, like the Dean, interested in all aspects of the student's welfare and her progress in College.

Although the College offers a variety of living accommodations, most students have single rooms. Some suites and double rooms are available. For all the rooms the College provides the necessary furniture, but students are expected to supply their own rugs and curtains in addition to any other accessories they may desire.

Each of the halls is a complete residence unit, with its own kitchen and dining room, except Pembroke East and West and Rhoads North and South which have common kitchens and dining rooms for the two wings. In every hall, there are both large and small public rooms, where students may entertain their guests and gather together for study or recreation. The maintenance of the hall is under the direction of a Hall Manager who, under the supervision of the College Dietitian, is also responsible for the preparation and serving of the meals. It is not possible to arrange for the cooking or serving of special foods or diets in the halls of residence.

RULES FOR RESIDENCE

Residence in the college buildings is required of all undergraduates except those living with their families in Philadelphia or the vicinity. The privilege of residence is extended to married students whose husbands are not living in the immediate vicinity of the College.

A student enrolled in the College who plans to be married must inform the Dean of her intentions and must make arrangements for living that meet with the Dean's approval. *Any student who marries during her college career without previously informing the Dean of her plan will not be permitted to remain in College.*

The College maintains its halls of residence in order to provide simple, comfortable living for its students. It expects the students to respect its property and the standards on which the halls are run. A printed statement of the regulations for residence is given each student for her guidance during the academic year. The College makes every effort to keep the residence charge low

and the present rates are possible only because the students have agreed to assume the major responsibility for keeping their rooms clean and in order, thus permitting a reduction in service. Failure on the part of a student to meet the requisite standard in the care of her room may cause the College to refuse her residence the following year.

All the halls are closed during the Christmas vacation; one hall is kept open during the spring vacation and here undergraduates may occupy rooms at a fixed rate per day. A student not going to her home for either vacation, and not staying in the hall kept open during spring vacation, must submit her plans for the holiday to the Dean for approval and must register her address with the warden of her hall.

NON-RESIDENT STUDENTS

Students who live with their families in Philadelphia and the vicinity have at their disposal a room in the Library where lockers are provided. Their college mail and notices about campus activities are sent to this room. Rooms in Goodhart Hall for teas and special occasions are also available on request.

When space permits, non-resident students may make arrangements with the Director of Residence to have meals in the residence halls. Meals are also readily available at the College Inn, which is on the campus.

Non-resident students are liable for all undergraduate fees except those for residence in the hall. The non-resident Infirmary fee of \$15.00 entitles them to medical examination and consultation with the College Physician.

The warden of one of the halls of residence serves as warden to the non-residents.

Fees

TUITION

THE tuition fee for all undergraduate students, resident and non-resident, and for hearers is \$1100 a year. The fee is payable on receipt of the bill sent in October. No reduction or refund of the tuition fee will be made on account of absence, illness, dismissal, or for any other reason.

The average cost of teaching each undergraduate student is over \$1700 a year. The difference must be met from the endowment funds of the College and from private gifts. Voluntary contributions from parents able and willing to pay the additional sum or part of it are most welcome and help to meet expenses of instruction.

RESIDENCE

The charge for residence is \$1050, \$1150 or \$1250, according to the size and location of the student's room or rooms. There is an additional fee of \$50 for residence in a language house. The residence fees are payable as follows:

\$1050—payable \$525 in October, \$525 in February

\$1150—payable \$575 in October, \$575 in February

\$1250—payable \$625 in October, \$625 in February

Application for Residence. A student in residence, who wishes to apply for a room for the following year, must make an application for a room and accompany it with an application fee of \$10. This fee will be credited against the residence charge if the room assigned is occupied by the applicant; it will not be refunded in any circumstance. Each student enrolled for the following year must make an additional deposit of \$40 not later than June first. This deposit will also be credited against the residence charge. It will be returned if the student withdraws from College before July first; it will not be returned if she withdraws later than July first.

New students applying for residence will be billed \$50 in the spring. This \$50 will be credited against the residence charge, but it will not be returned in case of withdrawal after July first.

An applicant who, after having reserved a room, fails to cancel her reservation by September first (even though she does not occupy the room at all or vacates it during the college year) prevents some other student from obtaining accommodation and consequently admission to the College. Therefore, unless formal notice of withdrawal of application for the ensuing academic year is received by the Dean of the College by September first, the applicant is responsible for the residence charge (based upon the room assigned to her) for the whole year, or if a definite room assignment has not been made, the applicant is responsible for the minimum residence charge of \$1050; subject to an allowance for the cost of food, and a further allowance if the College re-rents the room to a student not previously resident. The applicant is not entitled to dispose of the room.

Reduction of Charges for Absence from College. In case of illness or withdrawal from the College for a period of six consecutive weeks or longer there will be a reduction in the charge for residence (representing the reduced expense to the College for food), provided written notice is given to the Dean of the College at the time of withdrawal, or, in the case of illness at home, as soon as possible. Verbal notice to wardens or instructors is not sufficient to secure this reduction.

SUMMARY OF MAJOR EXPENSES FOR 1958-59

For resident students, tuition and residence: \$2150, \$2250, or \$2350 according to the type of accommodation.

For non-resident students, tuition: \$1100.

Minor Fees and Charges

Infirmity fee for non-resident students. . \$15.00

Laboratory courses (or, in geology, field work) for materials and apparatus:

One course of 2 hours or less a week	\$ 7.50	} a semester
One course of more than 2 hours a week	15.00	
Two courses of more than 2 hours a week.....	25.00	
Three courses of more than 2 hours a week.....	30.00	
Residence in a language house	50.00	a year
Graduation fee (payable in the senior year).....	20.00	
Health Insurance (Students' Reimbursement Plan), optional	15.00	a year

Bills will be rendered by the Comptroller at the beginning of each semester. Students whose fees and charges are not paid before November first in the first semester and before March first in the second are not permitted to continue in residence or in attendance on their classes. The Tuition Plan is available for parents who prefer to pay fees in monthly instalments. For details, see page 38.

General Information

STUDENT ADVISING

THE Deans are responsible for the general welfare of undergraduates, and students are free to call upon them for help and advice on academic or more general problems. The Dean of Freshmen is the adviser to the freshman class and the Dean of the College and the Assistant Dean are the advisers to upperclassmen. The warden, the college officer in charge of each residence hall, is a member of the Dean's staff and stands ready to assist students. The College Physician, the consulting psychiatrists and vocational advisers are also available to all students. The Deans and the wardens will always give students information about appointments with these specialists.

For freshmen, the College provides a special period of orientation. Freshmen are asked to come into residence three days before the College is opened to upperclassmen. The wardens of the various halls and a committee of upperclassmen welcome the freshmen and are available to answer questions and give advice. During these days the freshmen have interviews with either the President or the Dean of the College and consult with the Deans on registration for courses. New students also take placement tests and a physical examination. To acquaint them with the many other aspects of college life, varied activities are sponsored by undergraduate organizations.

ACADEMIC STANDARDS AND REGULATIONS

Faculty rules governing academic work and the conduct of courses are stated in the "Academic Rules for Undergraduate Work." Rules concerning the Academic Honor System and student conduct are stated in the Self-Government Handbook given to each freshman.

Each student's academic work must be of sufficiently high quality to meet the academic standards set by the College. The Senate of the College, composed of one faculty member from each department, reviews the records of those students whose work has fallen below the required standard. In such cases the Senate may set specific requirements to be met by the student concerned and may also curtail privileges. In extreme cases, the Senate may recommend exclusion from college.

Integrity of all work is demanded of every student. Information about the Academic Honor System dealing with the conduct of examinations, written quizzes, and other written work is given to all entering students, who must sign a statement that

they have read, understood and accepted the rules. Any infraction of these regulations or any action contrary to their spirit constitutes an offense. Infractions are dealt with by an Administrative Board under the chairmanship of the President of the College. The members of the board are the four college-elected members of the Executive Board of the Bryn Mawr Students' Association for Self-Government, three members of the faculty and the Dean of the College or representative of the administration.

ATTENDANCE AT CLASSES

Regular attendance at classes is expected. Responsibility for attendance rests solely with each student. When the quality of a student's work is affected in any way by absence from class, she will be warned in writing by the Dean. If she continues to cut after the warning she will be dropped from the course and reported to the Senate. A student who is dropped from two courses will be suspended from the College, by rules of the Senate, for the remainder of the semester.

Absences for health or other urgent reasons are excused by the Dean, but any work missed must be made up. After a brief absence the student should consult her instructor about making up any work so missed. After a prolonged absence the Dean must be consulted as well as the instructor. If it seems probable to the Dean that a student's work may be seriously handicapped by the length of her absence, she may be required to drop one or more courses. Any student absent for more than twenty-five consecutive class days will generally be required to drop a course.

EXCLUSION

The College reserves the right to exclude at any time any student whose conduct or academic work is unsatisfactory. In such cases the fees due or already paid to the College will be neither refunded nor remitted in whole or in part.

HEALTH

An extensive program including periodic physical examinations, and during the first two years regular work in the Department of Physical Education, has been established to help students develop and maintain optimum conditions of health. Students receive clinic and hospital care in the College Dispensary and Infirmary, where the College Physician is in daily attendance. The College maintains a modern twenty-two bed infirmary staffed by five registered nurses and a secretary-technician. The Bryn Mawr Hospital and other excellent hospitals in nearby

Philadelphia offer additional medical and surgical facilities.

The College Physicians and College Psychiatrists may be consulted by the students without charge. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The fees of consultants recommended by the College will be furnished on request. No student while in residence should consult an outside physician without previously informing the College Physician. Any student who leaves the campus for reasons of health must notify the Dean, the College Physician or Head Nurse before she leaves.

Certain health regulations must be met by all entering students. A medical examination blank provided by the College must be filed before July first. As part of this health report, certification of immunization against tetanus and diphtheria, vaccination against smallpox, a Mantoux test and an ophthalmologist's certificate are required. If the Mantoux test is reported positive a flat chest X-ray is necessary. (Students who have failed to hand in these reports will have the necessary examinations and immunizations on arrival at college and will be charged accordingly.)

The ophthalmologist's examination must be repeated before the beginning of the junior year. Failure to meet this requirement entails a fine and an examination by one of the college consultants, for which the student will be charged as a private patient by the ophthalmologist who makes the examination.

Any student who has a positive Mantoux test is required to have a yearly flat chest plate at Bryn Mawr Hospital beginning the year after admission to the College. The student is charged for this at the prevailing rates of the hospital.

Every undergraduate is examined in her freshman and senior years by the Physician of the College and in her freshman year by the Director of Physical Education with reference to physical development and general health. Students who have special health problems are examined more frequently. A student who at the time of an examination or at any other time during the year is not in good health is required to follow the special regime prescribed, and her extracurricular activities may be limited.

The residence fee paid by resident students entitles them to treatment in the College dispensary and to care in the College Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the College Physicians during this time and to general nursing. In cases requiring a special nurse, the

expense incurred must be paid by the student. This is mandatory in cases of serious illness and strict isolation. The fee for each day in the Infirmary after the seven-day period is nine dollars. The Infirmary is open when college is in session and during spring vacation. It is closed during Christmas vacation.

Non-resident students must pay a fee of \$15.00 which entitles them to unlimited dispensary and laboratory service and free consultation with the College Physician and Psychiatrists. Married non-resident students who maintain their own homes need not pay the fee unless they desire dispensary privileges.

All communications from parents and guardians, outside physicians and others, concerning the health of the students, should be addressed to the Dean of the College or the College Physician. Any student who becomes ill when absent from College must notify the Dean of the College immediately and present a signed statement to the Infirmary from her physician when she returns.

The College reserves the right, if the parents or guardians cannot be reached, to make decisions concerning operations or other matters of health.

The College has arranged with the Connecticut General Life Insurance Company of Hartford, Connecticut, for health insurance, known as the Students' Reimbursement Plan. Individual policies are available for resident students which provide for reimbursement, within specified limits, for medical, surgical and hospitalization expenses. The cost of a policy is \$15.00 a year and includes protection during all vacations. Application forms may be obtained from the Comptroller.

THE TUITION PLAN

Since some parents prefer to pay tuition and other college fees in equal monthly instalments during the college year, the College offers this convenience under The Tuition Plan, Inc., of New York City. The cost for a one-year contract is four per cent greater than when payment is made in cash. The interest rate is slightly higher for two-, three- or four-year contracts which include the benefit of Parent Life Insurance. If the plan of payment in equal monthly instalments is preferred, notification should be sent to the Comptroller of the College by August first.

INSURANCE

The College is not responsible for loss due to fire, theft or any other cause. Students who wish to insure against these risks should do so individually.

Curriculum

THE undergraduate curriculum is designed to achieve two main purposes: to give a broad and sound education in the liberal arts and sciences, and to provide adequate preparation for advanced study for those students who wish to enter graduate and professional schools.

For the purpose of providing breadth in the curriculum the College has established the following requirements which must be met by each candidate for the A.B. degree regardless of her choice of major subject: (1) Freshman English composition, (2) History of Philosophic Thought, (3) one course in the natural sciences, (4) one course in literature and (5) one course in the social sciences or history. Each student must also demonstrate a knowledge of two foreign languages. This may be done by (1) attaining a score of 590 on a College Board achievement test, (2) passing examinations which are offered by the College every spring and fall, or (3) passing with a grade of at least 70 a college course above the elementary level.

The major subject, chosen at the end of the sophomore year, is combined with work in allied subjects. The purpose of the major subject is to give each student the kind of training which continuity in the study of one field of knowledge provides. As she progresses toward more complex advanced work she acquires a deeper insight into the fundamental principles and general concepts of her subject. At Bryn Mawr the departments which offer major courses of study are: Biology, Chemistry, Classical Archaeology, Economics, English, French, Geology, German, Greek, History, History of Art, Italian, Latin, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Russian, Sociology and Anthropology, Spanish. There are also departments of Education and History of Religion, in which elective work may be taken although no major is offered.

Each major department offers Honors work to a number of its senior students who have demonstrated unusual ability. Honors work is of a more advanced character than that done in the regular courses and requires more initiative and power of organization than is usually expected of undergraduate students. Such work may be carried on in connection with an advanced

course or may be planned especially for individual students. It usually includes independent work of a critical and analytical nature with source material, periodic reports and the preparation of an Honors paper. To be eligible, a student must have completed two years of study in the major subject and her candidacy must be approved by the Dean and the Curriculum Committee. The Honors work must be undertaken in addition to at least one full unit of advanced course work.

The plan for the curriculum determines the framework within which each student constructs her own program of courses.

The minimum of $15\frac{1}{2}$ units of work for the A.B. degree is distributed as follows: $4\cdot5\frac{1}{2}$ units meet general college requirements, approximately 7 units constitute work in the major subject including allied work and the preparation for the Final Examination in the major subject, which are required of all students. The remaining units ($3\cdot4\frac{1}{2}$) are for courses to be elected freely by the student. Each full year course is the equivalent of one unit of work and each course constitutes one quarter of a student's working time for one year. For the benefit of transfer students, one course is the equivalent of 8 semester hours. In most cases, Freshmen, Sophomores and Juniors take 4 units of work and Seniors $3\frac{1}{2}$ including the unit of preparation for Final Examination in the major field. This preparation usually consists of independent reading and conferences with members of the major department designed to review and correlate the material covered in the major.

The plan may be outlined as follows:

I. A total of at least $15\frac{1}{2}$ units of work must be presented by all candidates for the A.B. degree. The total is made up of $14\frac{1}{2}$ units of course work and one unit of preparation for the Final Examination in the major subject.

II. The $14\frac{1}{2}$ units of course work must include the following:

1. The course for Freshmen in English Composition. This course is supplemented by work in English Speech consisting of individual conferences which must be completed before the end of the Sophomore year.

2. A course in Literature to be chosen from courses in English and Biblical Literature, Greek or Latin.

3. A course in one of the following sciences: Biology, Chemistry, Geology or Physics.

4. The course in History of Philosophic Thought.

5. A course in social science to be chosen from courses in Economics, History, Political Science, Psychology or Sociology and Anthropology.

6. Although no specific course or courses are required, each student must demonstrate in one of the ways listed on page 39 a knowledge of two foreign languages.

Language examinations may be taken in any autumn or spring after entrance, up to the beginning of the senior year. A Senior who fails either examination or is conditioned in both in the autumn will not receive her degree the following June. If having passed one examination she is conditioned in the other, she may take a second examination in January.

III. The total number of at least $15\frac{1}{2}$ units of work must include a major subject chosen at the end of the sophomore year. The major subject must consist of:

1. Six units of work to be distributed as follows:

a. At least three and usually four courses of work in the major field. Of these one or two must be second-year courses, and one must be advanced.

b. The remaining number of courses to make up the required total of six to be chosen among the courses listed by the major departments as acceptable for allied work.

2. One unit of preparation for the Final Examination in the major subject. All students who receive the degree must have passed this examination.

IV. Elective work. The remaining units of work which make up the required total of $15\frac{1}{2}$ are devoted to elective courses. Students may choose freely any courses which do not have prerequisites or any courses whose prerequisites they can meet.

V. Grades. Numerical grades on the scale of 100 are given in all courses counting for the degree. Each student must attain a grade of 70 or above in at least half of these courses and a grade

of at least 60 in the remainder. In all courses in her major subject, she must attain grades of 70 or above. Should she receive a grade below 70 in a second year or advanced course in her major subject, she may be required to change her major.

VI. The degree of Bachelor of Arts is conferred upon students who have completed the course of study described above. The degree is awarded *cum laude*, *magna cum laude*, and *summa cum laude* to students whose numerical average grades in all their courses is 80-84, 85-89, 90 or above respectively. To students who have completed Honors work in their major subject the degree is awarded with honors in that subject.

VII. Credit for work taken elsewhere:

1. Transfer credit (see page 27)
2. Cooperation with Neighboring Institutions

Under the three-college plan for cooperation, full-time students at Bryn Mawr may register for courses at Haverford College and Swarthmore College without payment of additional fees. Such registrations must be approved by the Dean and the departments concerned. Credit toward the Bryn Mawr degree will be granted for such courses.

3. Summer School Work

Students desirous of supplementing their work at Bryn Mawr by taking courses in summer school are encouraged to do so. Academic credit is granted for summer school work only under special circumstances. For example, students who have been absent from college because of illness may present summer school work to make up the credits needed for the Bryn Mawr A.B. degree. Summer school work recommended by the major departments as part of the plan of major work may also be presented for credit. No credit will ever be given for work in which a student has received a grade below C. Students who wish to present summer school work for credit should first obtain approval of their plan from the Dean and from the department concerned. Credit given for such work will be calculated on an hour-for-hour basis.

VIII. Supplementary requirements for the Degree:

1. In addition to completing the course of study outlined above, all candidates for the A.B. degree must take the following work:

a. All students must fulfill the requirement in English Speech. This consists of an interview-test during the freshman year, to be followed by remedial work (in conference, without credit), ordinarily throughout the first semester, for those needing it.

b. Hygiene

All students must meet the requirement in Hygiene. This consists of an examination which is based on reading assigned by the College Physician and the Consulting Psychiatrists and given each spring. Students must pass the required examination no later than the spring of the junior year.

c. Physical Education

All students must meet the requirement in Physical Education, which consists of work taken throughout the freshman and sophomore years (see page 106).

2. Residence—Every candidate for the degree of Bachelor of Arts unless she is a transfer student or is permitted to accelerate her program must attend Bryn Mawr College for a period of four years. Students admitted on transfer from other colleges must study at Bryn Mawr for at least two years.

PREMEDICAL PREPARATION

Bryn Mawr through the curriculum in liberal arts and sciences, provides the opportunity of meeting requirements for admission to the leading medical schools of the country, and each year a number of its graduates enter these schools. The minimal requirements for most medical schools are met by the following courses: Biology 101, Chemistry 101, Chemistry 202, Mathematics 101, Physics 101. Some medical schools require also Chemistry 201a, and reading facility in French and German.

These requirements are fulfilled by a major in Biology, with the election of Mathematics 101 and Physics 101, or by a major in Chemistry, with the election of Biology 101. They can be met by a major in other subjects, such as literature or

history, with careful planning of the student's courses during her four years at Bryn Mawr and some work in the summer at an institution giving summer courses acceptable either to Bryn Mawr in substitution for its regular course work, or to the medical school of the student's choice as preparation for its courses of study.

The College is able to award a number of scholarships for medical study from funds given for that purpose by friends interested in the advancement of women in medicine. These may be applied for on the student's admission to medical school and are awarded at the end of her senior year, for use during the first year of medical study with the prospect of renewal for later years if her need and her record in medical school warrant it.

COORDINATION IN THE SCIENCES

In 1935, a grant from the Carnegie Corporation of New York enabled the College to put into operation a plan for coordination in the sciences. Under this plan, the science departments offer an unusual kind of science training, providing instruction in overlapping fields of natural science and related subjects, such as biophysics, geochemistry, or psychophysics. This kind of training necessarily demands a thorough grasp of the fundamentals of at least two of the sciences, and usually also of mathematics. This training may be obtained in the first three years of undergraduate study and the interrelated work begun in the senior year and continued in the Graduate School.

Through this grant, the College is also able to offer both undergraduate and graduate scholarships to students who wish to prepare themselves for future work in these relatively new and extremely fruitful areas of scientific investigation. The chairmen of the Departments included in this plan (Biology, Chemistry, Geology, Mathematics, Physics, Psychology) will be glad to see students interested in it and to advise them about their courses of study. Such students should consult with the chairmen of the Departments in which their special interests lie as early in their course as it is possible to do so.

INTERDEPARTMENTAL COURSES

Each year, certain courses are offered which cut across well defined areas of knowledge and emphasize relationships among

them. Such courses are taught by two or more members of the faculty working in close cooperation. Since the material considered requires some background in at least two disciplines, the interdepartmental courses are usually offered at the advanced level. For students who have progressed to the more complex aspects of their major subjects, the interdepartmental courses provide opportunities to apply their training to new and broader problems, and to benefit from the experience of seeing their own subject from the points of view of several specialists. To facilitate free discussion registration is generally restricted to a limited number of well-qualified students.

LANGUAGE HOUSES

Wyndham is a small residence open to upperclassmen who wish to speak French. Residence in the language house requires adequate preparation in French, and students accepted agree not to speak English at any time while living in the French House. Residence in a language house provides an excellent opportunity to gain fluency in the speaking of a foreign language and is highly advisable for students planning to spend the junior year abroad. Whenever there is sufficient demand, similar residences are available to students of German and Spanish.

THE JUNIOR YEAR ABROAD

Qualified students may apply for admission to the various groups spending the junior year in Europe. Bryn Mawr students may study in Paris under the Junior Year in France Plan sponsored by Sweet Briar College; in Geneva, Florence, or Madrid with groups organized by Smith College, or in Munich with the group sponsored by Wayne University. Applicants must have excellent academic records and must give evidence of competence in the language of the country in which they plan to study. In general, two years of study of the language at the college level are necessary to provide adequate preparation. The junior year groups are not limited to language majors; they often include majors in, for example, History of Art, History or the Social Sciences. All students who plan to study abroad should consult with the chairmen of their major Departments in order to be certain that the work done in Europe may be coordinated with the general plan for the major subject.

SCHOLARSHIPS AND OTHER STUDENT AID

All students are, strictly speaking, on scholarship in the sense that their tuition fees do not wholly cover the costs of instruction. To those students well-qualified for education in liberal arts and sciences but unable to meet the college fees, Bryn Mawr is able to offer further scholarship aid. Alumnae and friends of the College have built up endowment for scholarships over many years. Annual gifts from alumnae and alumnae clubs and from industries add to the amounts available each year. It is now possible to provide at least partial scholarships for a quarter to a third of the undergraduate students. Full information about the scholarships available and other forms of help in meeting the expenses of college education will be found in the section, Academic Awards.

Courses of Study

1958 - 1959

Key to Course Numbers and Symbols

- 1, 2, 3indicate elementary and intermediate courses.
With the exception of Greek 1 and Russian
1 these courses are not part of the major
work.
- 101, 102, etc.indicate first-year courses in the major work.
- 201, 202, etc.indicate second-year courses in the major
work.
- 301, 302, etc.indicate advanced courses in the major work.
- *indicates elective courses, open to all students
without prerequisite unless a specific pre-
requisite is stated.
- athe letter "a", following a number, indicates
a half-course given in the first semester.
- bthe letter "b", following a number, indicates
a half-course given in the second semester.
- cthe letter "c", following a number, indicates
a half-course given two hours a week
throughout the year.
- []Square brackets enclosing the titles of courses
indicate that these courses, though regular
parts of the program, are not given in the
current year.

In general, courses which are listed as full-year courses must be carried through two semesters. In some cases one semester of such a course may be taken with credit, but only with permission of the Dean of the College and the Department concerned. Students are reminded that one unit of work carried throughout the year is the equivalent of eight semester hours.

Biology

PROFESSORS:

MARY S. GARDINER, PH.D.,
Chairman

L. JOE BERRY, PH.D.

ELEANOR A. BLISS, SC.D.

JANE M. OPPENHEIMER, PH.D.

ASSISTANT PROFESSOR:

ROBERT L. CONNER, PH.D.

ASSISTANTS:

ANNA CHAO, A.B.

PHOEBE STARFIELD LEBOY, A.B.

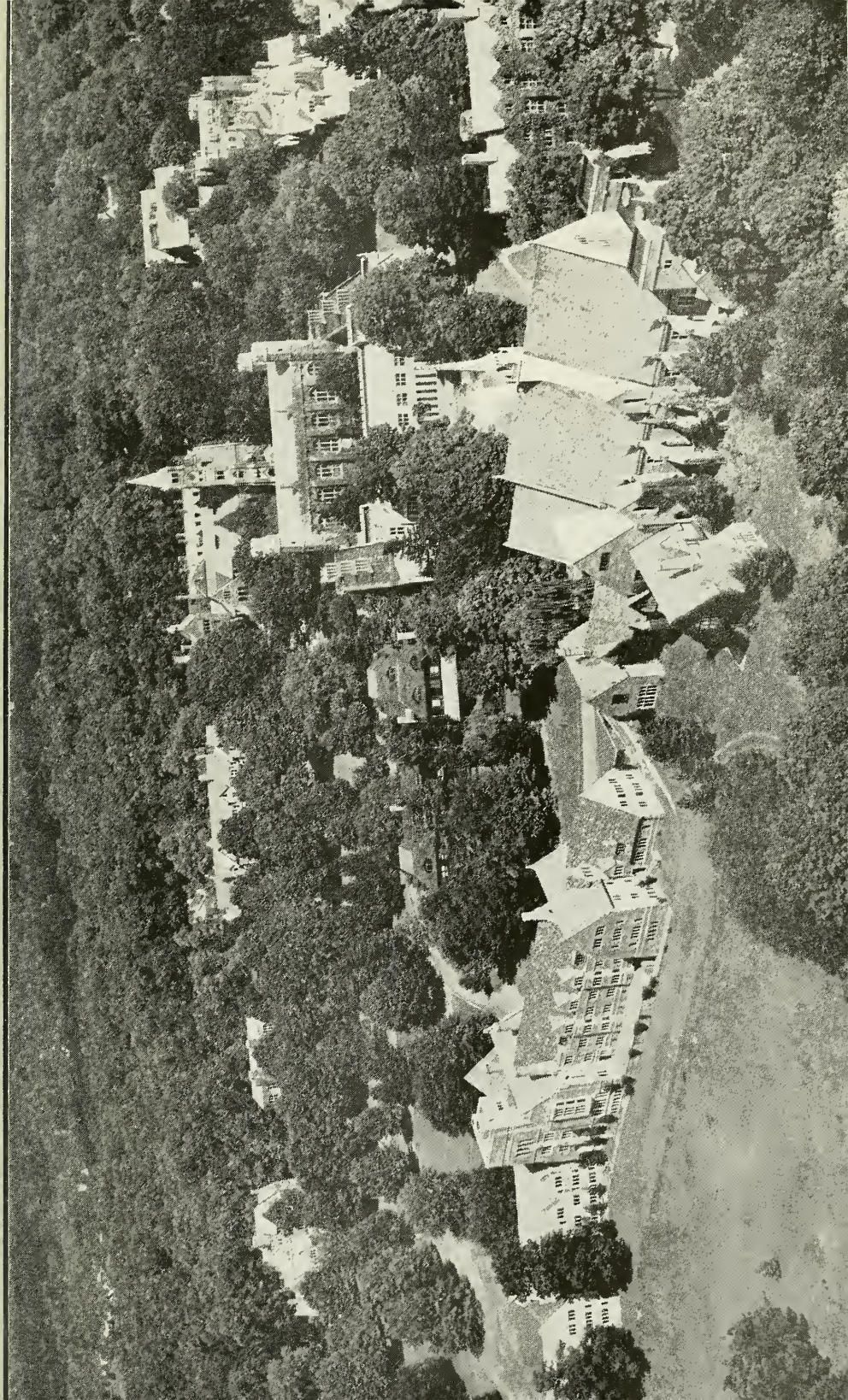
JANE ROYLE McCONNELL, PH.D.

DORIS ANN REINOEHL, M.S.

WANDA SPRINGER, A.B.

The courses offered are designed to present the principles underlying biological science to liberal arts students interested in man's understanding of the world in which he lives and his own position in it. Primary consideration is devoted to the interplay of development, structure and function in determining the unity and diversity which characterize the plant and animal kingdoms, and to the historical and dynamic interrelationships of living organisms with each other and with their environments. In the laboratory the student learns by dissection and microscopic study the gross and detailed anatomy of representative animals and plants, and by experimentation the functional relationships within them and their operation under natural and controlled experimental conditions.

REQUIREMENTS IN THE MAJOR SUBJECT: Biology 101, 201 and 202; one advanced course, and as allied work, Chemistry 101 and 202. Students offering two fields in Biology for the final examination, in addition to the examination in General Biology, must take two advanced courses. Physics 101, Mathematics 101 and Chemistry 201 are strongly recommended as allied work, and are required for admission to some medical schools. The Biology Department has no special language requirements but students should note that the ability to read French and German is essential for those expecting to do graduate work and is required for admission to some medical schools.





ALLIED SUBJECTS: Chemistry, Physics. Other subjects may be included, with the approval of the Department and the Dean of the College.

101. *General Biology*: Miss Gardiner, Mr. Conner, Miss Oppenheimer.

A presentation of the fundamental principles of development, structure and function in organisms. A wide range of plants and animals is studied to illustrate broad biological problems and theories of historical and contemporary interest. Lectures three hours, laboratory four hours, per week.

201. *The Biology and Physiology of Vertebrates*: Miss Oppenheimer, Mr. Berry.

A study, supplementing that of the first-year course, of the anatomy of representative vertebrates, their physiology and natural history. Lectures three hours, laboratory four hours, per week.

202. *Invertebrate Biology and Cellular Physiology*: Miss Gardiner, Mr. Conner.

A survey of the anatomy and natural history of the invertebrates and a study of the functional problems met by living systems and of the mechanisms by which these are solved. Lectures three hours, laboratory four hours, per week. Prerequisites: Chemistry 101, Chemistry 202 (may be taken concurrently).

- [301. *Theories of Inheritance*: Miss Gardiner.]

A study of the various theories of inheritance leading to modern concepts of heredity in organisms.

302. *Developmental Physiology*: Miss Oppenheimer.

Discussion of factors controlling growth and differentiation in vertebrates and invertebrates. Lectures two hours, laboratory six hours (minimum) per week. This may be taken concurrently with Biology 202.

303. *Physiology of Micro-organisms*: Mr. Berry.

An introduction to the fundamental physiological and biochemical principles associated with studies of micro-organisms, including host-parasite relationships and other interactions between organisms. Major emphasis is given to bacteria and bacteriological techniques. Lectures two hours, laboratory six hours (minimum) per week. Prerequisites: Biology 202, Chemistry 202.

[304. *Micro-anatomy*: Miss Gardiner.]

The study of tissues and cells, with consideration of the methods of preparing material for microscopic study.

305. *Biochemistry*: Mr. Conner.

The chemistry of living organisms with special emphasis on the chemical principles in physiological phenomena. Lectures two hours, laboratory six hours (minimum) per week. Prerequisites: Chemistry 202; Physics 101 is strongly recommended.

[306. *Biophysics*: Mr. Berry.]

A study of the advantages and limitations of applying methods and theories of physics or of physical chemistry to living systems. Topics for discussion may be selected by the class. Lectures two hours, laboratory six hours (minimum) per week. Prerequisites: Biology 202, Chemistry 202; Physics 101 is strongly recommended.

FINAL EXAMINATION: The final examination is in three parts:

1. General Biology (required of all students).
2. Two examinations from the following group: Biochemistry, Biophysics, Theories of Inheritance, Development of Scientific Thought, Embryology, Micro-anatomy, Physiology of Micro-organisms.
3. For one of the examinations in Part 2, students may substitute:
 the Honors paper
 or
 an examination in Chemistry or Physics covering at least two years of work in the subject.

Other subjects may be accepted for the third examination provided that at least two years of work have been done in the one offered.

HONORS WORK: Honors work in any of the advanced fields is offered for qualified students.

Chemistry

PROFESSOR:	ERNST BERLINER, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR:	GEORGE L. ZIMMERMAN, PH.D.
ASSISTANT PROFESSORS:	FRANK B. MALLORY, PH.D. JOSEPH VARIMBI, PH.D.
LECTURER:	FRANCES BONDHUS BERLINER, PH.D.
ASSISTANTS:	PRISCILLA CARNEY, A.B. ISABEL B. ECHIKSON, M.A. JANICE GORDON, M.A. ADELAIDE W. MAUCK, A.B. SUZANNE PETERSON, A.B.

The major in Chemistry is designed to give the student a sound background in the four major fields of Chemistry: Inorganic, Analytical, Organic and Physical Chemistry. The courses are arranged in such a sequence as to convey an insight into the development of chemical theories from basic scientific principles. In the advanced courses the student begins to be acquainted with current problems in special fields and with modern approaches to their solutions. The emphasis throughout is on the fundamental principles on which Chemistry is based and which are exemplified and further clarified by laboratory work taken in conjunction with each course.

REQUIREMENTS IN THE MAJOR SUBJECT: Chemistry 101, all 200 courses and one and one-half units of advanced work. Physics 101, Mathematics 101 and a reading knowledge of German and of French or Russian are also required. Students are urged to take also Mathematics 201.

ALLIED SUBJECTS: Biology, Geology, Mathematics, Physics.

101a. *General Chemistry*: Mr. Mallory and assistants.

An introduction to the theories of chemistry and the study of the non-metals. No knowledge of chemistry is presupposed. Three lectures, four hours laboratory a week.

101b. *Qualitative Analysis and the Chemistry of the Metals*: Mr. Berliner and assistants.

Systematic qualitative analysis of inorganic substances and the theories on which it is based. A study of the metallic elements. Three lectures, four hours laboratory a week.

201a. *Quantitative Analysis* (first semester): Mr. Varimbi.

Theories and practice of the quantitative determination and separation of inorganic substances. Two lectures, eight hours laboratory a week.

202. *Organic Chemistry*: Mr. Berliner, Mr. Mallory.

First semester: aliphatic chemistry; second semester: aromatic chemistry and natural products. Three lectures, five hours laboratory a week.

203. *Physical Chemistry*: Mr. Zimmerman, Mr. Varimbi.

Structure and kinetic-molecular theory of matter, elementary thermodynamics and chemical kinetics. Two lectures, five hours laboratory a week. Prerequisites: Mathematics 101 and Physics 101 (the latter may be taken concurrently).

301b. *Inorganic Chemistry*: Mr. Varimbi.

A systematic study of the descriptive and theoretical chemistry of the elements and their compounds based on the Periodic Table. Two lectures, six hours laboratory a week.

302 (a and b). *Advanced Organic Chemistry*: Mr. Mallory, Mr. Berliner.

Lectures: theories and fundamental principles of organic chemistry. Laboratory: (first semester) organic qualitative analysis; (second semester) advanced synthesis and quantitative organic analysis. Two lectures, six hours laboratory a week. The first semester may be taken without the second ($\frac{1}{2}$ unit).

303 (a and b). *Advanced Physical Chemistry*: Mr. Zimmerman.

First semester: systematic chemical thermodynamics; second semester: atomic and nuclear structure, elementary quantum theory. Two lectures, six hours laboratory a week. The first term may be taken without the second ($\frac{1}{2}$ unit).

FINAL EXAMINATION: The examination consists of three parts:

1. General Chemistry (required of all students).
2. Two examinations from the following group:
 - a. Analytical Chemistry
 - b. Organic Chemistry
 - c. Physical Chemistry
3. For one of the subjects in Group 2, an examination in an allied subject, covering at least two years of work, may be offered. In that case the student need take only one unit of advanced work.

HONORS WORK: Honors work may be taken by qualified students in conjunction with any of the advanced courses or after their completion.

Classical Archaeology

ASSOCIATE PROFESSOR:	MACHTELD JOHANNA MELLINK, PH.D., <i>Chairman</i>
ASSISTANT PROFESSOR:	ALEXANDER CAMBITOGLOU, PH.D.
ASSISTANT AND CURATOR OF SLIDES AND PHOTOGRAPHS:	BRUNILDE SISMONDO, PH.D.
PROFESSOR OF ANTHROPOLOGY:	FREDERICA DE LAGUNA, PH.D.

The major courses provide an extensive survey of the ancient Mediterranean civilizations, with emphasis on the Greek arts of sculpture, architecture and vase-painting.

REQUIREMENTS IN THE MAJOR SUBJECT: Classical Archaeology 101, 201, 203 and 301.

ALLIED SUBJECTS: Ancient History, Anthropology, Greek, History of Art, Latin.

Lectures are illustrated by lantern slides; and for most courses photographs are available for study and review. A term paper or report is normally required.

101. *An Introduction to Ancient Art*: Miss Mellink, Mr. Cambitoglou.

In the first semester a general survey of the evolution of ancient art is given, beginning with the Egyptian and Mesopotamian heritage and tracing its importance first to Aegean art and then to the origins of Greek art proper. The major achievements of archaic and classical Greek art are discussed in some detail.

In the second semester, the principal features of Hellenistic, Etruscan and Roman art in Italy and throughout the Mediterranean world are studied down to the end of the Roman Empire in the West, ca. A.D. 476.

201a. *Egyptian and Mesopotamian Archaeology*: Miss Mellink.

An introduction to the cultures of the ancient Near East, stressing the origins of civilization and the rise of local traditions.

201b. *Aegean Archaeology*: Miss Mellink.

The pre-Greek cultures of the Aegean area; Minoan Crete and its relations; the encounter of pre-Greeks and Hellenes; the

first consolidation and expansion of Greek culture in the Mycenaean age.

[202a. *Ancient Greek Cities and Sanctuaries.*]

A course considering in a comprehensive way the ancient form and general cultural importance of such sites as Athens, Delphi and Olympia, with emphasis on history, religion and mythology connected with each center.

202b. *Cultural History of Archaeology*: Miss Mellink.

The development of archaeology through the ages: antiquarian interests, early excavations and travels, the position and future of archaeology as a modern discipline.

203a. *Greek Sculpture*: Mr. Cambitoglou.

The development of Greek sculpture from its beginnings to Roman times. A fourth hour weekly is devoted to informal conference and discussion. The term paper deals with some piece of sculpture selected by the student.

203b. *Roman Sculpture*: Mr. Cambitoglou.

The development of Roman sculpture from its beginnings in Etruscan and Greek Italy and the Hellenistic world to the end of the Roman Empire in the West, ca. A.D. 476. A fourth hour weekly is devoted to informal conference and discussion. The term paper deals with individual monuments or groups of sculpture selected by the student.

[204. *American Archaeology*: Miss de Laguna (See Anthropology 204).]

301a. *Ancient Painting*: Mr. Cambitoglou.

The development of Greek vase-painting as an original form of art, its relations to monumental painting, and its place in Greek archaeological research.

301b. *Ancient Architecture*: Miss Mellink.

The ancient architectural tradition in its historical context, with special study of the Greek temple as its dominant achievement.

302a. *The Greek Style in Art*: Miss Mellink.

Prerequisites: 101, 201, 203, 301. An analysis of the originality and consistency of style in the various fields of Greek art. The course will be conducted as a discussion group with reports and a term paper.

FINAL EXAMINATION: Three papers on any three of the fields covered by the undergraduate lecture courses, but with ques-

tions of broader scope involving more extensive knowledge. During their senior year majors attend weekly one-hour conferences in each of their selected fields. If a student wishes, she may write one of the three papers in an allied field.

HONORS WORK: A long written paper is submitted on some topic selected by the student and approved by the Department. In preparation, the student confers throughout the year with the member of the Department under whom the paper is prepared.

Economics

PROFESSORS:	MILDRED BENEDICT NORTHROP, PH.D., ¹ <i>Chairman</i>
	JOSHUA C. HUBBARD, PH.D.
ASSOCIATE PROFESSOR:	MORTON S. BARATZ, PH.D.
LECTURER:	MAXINE WOOLSTON, PH.D.
ASSISTANT:	To be announced.

This major is designed (1) to provide the student with an understanding of the institutions and processes of the economic world in which we live, (2) to train her in the methods by which these institutions and processes may be analyzed, and (3) to enable her to evaluate the role played by economic forces in the political and social issues of the day.

REQUIREMENTS IN THE MAJOR SUBJECT: Economics 101, two units elected from 201, 202 and 203, and 301. Students are urged to take Mathematics 204 (Statistics) which will count as part of their allied work.

ALLIED SUBJECTS: Political Science, History, Philosophy, Psychology, Mathematics, Sociology and Anthropology, Modern Languages. Particular attention is called to the following courses as of special interest to economics majors: Mathematics 204 (Statistics), Geology 305* (Geography) and Political Science 210 (The Soviet System).

101. *Introduction to Economics:* Mr. Hubbard, Mr. Baratz.

This course analyzes the major problems involved in the allocation of resources, the distribution of income, the maintenance of economic stability, the provision of social security and international economic relationships.

1. On sabbatical leave for the year 1958-1959.

201a. *Industrial Organization*: Mr. Baratz.

A study of the development of modern industrialism with particular reference to the development of the modern corporation; corporation finance and price policy; the decline of competition and problems of government regulation and control.

[201b. *International Economics*: Miss Northrop.]

A study of international trade and international finance in theory and practice; the foreign economic policy of the United States; International Economic Organization; the impact of industrialism on underdeveloped nations.

202a. *Money and Banking*: Mrs. Woolston.

The function of money and banking in a credit economy; the history, organization and structure of the money and banking system of the United States; problems of the value of money.

202b. *Public Finance and Fiscal Policy*: Mr. Baratz.

A study of local, State and Federal revenues and expenditures with particular emphasis on the Federal budget; fiscal policy as a positive means of shaping public taxation and expenditure so as to contribute to a stable full employment economy.

203a.* *The Labor Movement*: Mrs. Woolston.

History of the Labor Movement with emphasis upon the political and economic factors which have influenced its development and present characteristics; causes of labor disputes and methods for settlement.

203b.* *Employer-Labor Relations*: Mrs. Woolston.

Significance of collective bargaining; legal aspects; nature of the collective bargaining contract in various industries; wage determination; personnel policies and practices.

204b. *Problems of Economic Change*: Mr. Hubbard.

History of economic development with particular reference to the Industrial Revolution. Analysis of the problems of secular growth.

301a. *History of Economic Thought*: Mr. Hubbard.

An analysis of economic thought in the 18th and 19th centuries as it developed against the background of social and political change. Readings, among others, in the works of Smith, Malthus, Ricardo, Mill, Marx, Jevons and Marshall.

301b. *Contemporary Economic Thought*: Mrs. Woolston.

An analysis of economic thought in the 20th century. The

national income, the determination of prices, fluctuations in economic activity, the determinants in the level of income and employment.

[302b. *Comparative Economic Systems*: Miss Northrop.]

A study of the major forms of economic organization with particular emphasis on those existing today.

FINAL EXAMINATION: The final examination for students majoring in Economics is in three parts:

1. An examination in general economic principles and problems.
2. An examination in Economic Theory.
3. An examination in one of the following:
 - a. Money and Banking, including Fiscal Policy
 - b. Industrial Organization
 - c. International Economics
 - d. The Business Cycle and Full Employment
 - e. Labor Economics including Wages and Wage Theory
 - f. The History of Economic Thought

With the permission of the major and allied departments, one paper may deal with an allied subject.

HONORS WORK: One unit of Honors work may be taken by students recommended by the Department.

Education

PRESIDENT

OF THE COLLEGE:

KATHARINE ELIZABETH MCBRIDE,
PH.D., LL.D., L.H.D., Sc.D.

PROFESSOR AND DIRECTOR,

CHILD STUDY INSTITUTE: RACHEL DUNAWAY COX, PH.D.,

LECTURER AND DIRECTOR,

Chairman

THORNE SCHOOL:

SUSAN E. MAXFIELD, M.S.

LECTURER:

ETHEL W. MAW, M.S.

ASSISTANT:

LELIA BRODERSON, M.A.

The work in Education is designed for students preparing for teaching or for work with children in a variety of fields. The curriculum treats the nature and development of the child, the psychology of teaching and learning, and principles of measurement. It deals with the history, philosophy and objectives of the school as a social institution.

Though there is no major in Education, a sequence of courses in the Department will enable the student to utilize her liberal education in teaching. This sequence will satisfy the requirements of most states for certification to teach in the secondary school. It will provide a substantial part of the work required for the elementary teaching certificate. The student who wishes to prepare for teaching should consult with the chairman of the Department early in her college course. A course in General Psychology is a prerequisite to all the advanced work of the Department and should be taken not later than the sophomore year.

Practice-teaching, supervised by master teachers and integrated with an advanced course at the College is carried on in the nearby schools of the Lower Merion Township.

The Phebe Anna Thorne School is maintained by the Department of Education as a laboratory for child study where undergraduates have experience with young children as part of the course work. The pre-school program, in which advanced students assist, provides training opportunities for those planning to teach.

The Department also operates the Child Study Institute. This is a clinic supported jointly by the College and the Lower Merion Township Schools for work in Child Development. Problems of learning and behavior are studied; psychological testing and remedial teaching are carried on. A program of counseling for children and their parents renders help in school and family adjustment. Advanced students participate in the work, and undergraduate and graduate students observe in the schools.

Referrals also come to the Institute from the neurological and pediatric departments of the Bryn Mawr Hospital, from psychiatrists and from social agencies, giving the students the opportunity for acquaintance with a diversity of clinical material. Rooms are equipped for the individual examination of pupils, remedial teaching, play therapy and student observation. Sound recording facilities are available for the study and improvement of counseling and testing techniques.

[101b. *Principles of Education*: Miss McBride.]

The organization and objectives of the school and the principles of child development, of learning and of guidance which should be taken into account if these objectives are to be achieved.

102b. *History of Education*: Mrs. Maw.

A study of the inter-relation of education and culture from earliest times to the present day with particular consideration given to current educational issues as they are rooted in the historical process.

[201a. *Educational Psychology*: Mrs. Cox.]

Principles of Psychology applied to teaching and learning. Problems of motivation, evaluation and adjustment. Group process and learning. Two hours laboratory per week.

202a. *Child Psychology*: Miss McBride, Mrs. Cox.

The development of the child from infancy to maturity. Physical, intellectual and emotional growth and learning in the family and the school. Two hours laboratory per week in the Thorne School. Prerequisite: Psychology 101.

301a. *Principles of Teaching in the Secondary School*: Mrs. Maw.

The objectives, curriculum and organization of the secondary school in American society. The nature of the learner and his relation to the school program and aims. Two-hour seminar per week; 12 hours practice-teaching in the junior or senior high school.

English

PROFESSORS:

K. LAURENCE STAPLETON, A.B.,
Chairman

STEPHEN JOSEPH HERBEN, B.LITT., PH.D.

ARTHUR COLBY SPRAGUE, PH.D.

MARY KATHARINE WOODWORTH, PH.D.

BETTINA LINN, M.A.

VISITING PROFESSOR:

SAMUEL C. CHEW, PH.D., LITT.D.

ASSOCIATE PROFESSOR:

WARNER B. BERTHOFF, PH.D.

ASSISTANT PROFESSORS:

DAVID BONNELL GREEN, PH.D.

ISABEL GAMBLE MACCAFFREY, PH.D.

ROBERT HAWES BUTMAN, M.A.

INSTRUCTORS:

BARBARA M. CROSS, PH.D.

RAMONA T. LIVINGSTON, A.B.

MARGARET C. PEARCE, B.S.

ROBERT A. WALLACE, A.B.

To the student planning to major in English the Department offers courses covering all periods of English Literature. The student selects her fields within this broad range and devotes special attention to one period or literary genre.

REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in English must take English 101 unless they have the recommendation of the Department to enter a second-year course. They must complete four second-year and advanced courses in English Literature, of which at least one should be an advanced course. Students who wish to specialize in the field of Old and Middle English must take some courses in later periods, and those specializing in modern literature must take English 201 or, in exceptional cases, certain other courses approved by the Department. Credit will not be given for a single semester's work in full-year courses unless the Dean of the College recommends, and the Department approves, that an exception be made.

ALLIED SUBJECTS: Any other language or literature, History, History of Art, History of Religion, Music, Philosophy and certain courses in Classical Archaeology. Students are advised to devote one unit of allied work to a course in Greek or Latin or Greek Literature in Translation. Any second-year or advanced writing course may be substituted for one unit of allied work.

WRITING, LANGUAGE, AND SPEECH

15. *English Composition and Reading:* Miss Linn, Mr. Berthoff, Mrs. MacCaffrey, Mr. Green, Mrs. Livingston, Mrs. Cross, Mr. Wallace.

Practice in writing based upon the study of selected authors, with emphasis upon ideas and the problems of the writer in his time. The student will read fiction, poetry, and critical and argumentative prose in one of the following fields: (a) Literature of the twentieth century; (b) American Literature, 1840 to the present; (c) English Literature from 1830-1900. There will be weekly papers and discussions, and regular conferences with each student.

In 209, 215a and 306 weekly papers are usually required. Students who cannot meet this requirement should not elect any of these courses.

- 209.* *Experimental Writing:* Mr. Wallace.

Practice in various forms of writing, fiction and non-fiction. Attention is paid to the needs and interests of each student. Pre-

requisite: English 1 at Bryn Mawr or the written permission of the instructor.

210a.* *Playwriting and Production*: Mr. Butman.

Writing of two original one-act plays.

210b.* *Advanced Playwriting and Production*: Mr. Butman.

Writing of a full-length play and preparation of its production-book. Prerequisite: approval of the instructor.

211.* *Verse Composition*: Miss Stapleton.

Original verse composition, with a study of the principles of form.

[213b.* *History of the English Language*: Mr. Herben.]

[215a.* *Prose Writing*: Miss Linn.]

Practice in various forms, excluding fiction and with emphasis on exposition and description. Prerequisite: English 1 at Bryn Mawr or the written permission of the instructor.

306* and 306c.* *Advanced Writing*: Miss Linn.

Practice in various forms of writing with the emphasis on technical problems. Prerequisite: English 209.

LITERATURE

101. *Introduction to English Literature*: Mrs. MacCaffrey, Mr. Wallace.

A critical study of major works and representative writers, with emphasis upon the historical context and the growth of literary tradition.

201. *English Literature of the Middle Ages*: Mr. Herben.

The emphasis is upon Chaucer and his contemporaries. Sufficient instruction is given in Middle English to enable the student to read ordinary texts.

202. *Shakespeare*: Mr. Sprague.

In the first semester all the plays are read, and in the second semester two or three are studied in detail.

[203. *The Romantic Period*: Mr. Green.]

English Literature from 1789 to 1832. Attention is centered upon the poets.

204. *The Victorian Period*: Mr. Green.

Attention is centered upon the poets.

205. *Representative English Novelists*: Miss Linn.

A study of the development of English fiction, and of the novel as a literary form, through the works of selected novelists in the Eighteenth and Nineteenth Centuries. Prerequisite: the reading of two novels by each of the following: Charlotte Brontë, Dickens, Thackeray, George Eliot, Meredith.

[206a. *English Drama from the Restoration to Robertson*: Mr. Sprague.]

[206b. *Modern English Drama*: Mr. Sprague.]

The drama from 1865 to the present day.

207. *English and American Literature of the Last Half-Century*: Miss Woodworth.

The modern movement, its experiments and tendencies, with concentrated study of major writers, Yeats, Joyce, Eliot and others.

208. *American Literature*: Mr. Berthoff.

From the beginnings to the present day.

[212b. *Blake*: Miss Woodworth.]

A study of the poetry, prose, paintings and engravings of Blake, with emphasis on intellectual history and the development of art in the period.

[213a. *Mediaeval Narrative*: Mr. Herben.]

Vernacular narrative literature of the West, from epic to romance. Works not in English will be read in translation.

[214a.* *English Prose of the Sixteenth Century*: Mrs. MacCaffrey.]

The main intellectual currents of the period are studied, with reading in the major prose writers.

301. *Old English Literature*: Mr. Herben.

After some training in Old English grammar, selections from prose and poetry are read, followed by the *Beowulf*.

302a. *The Drama from the Beginnings to 1642*: Mr. Sprague.

A rapid survey of earlier periods is followed by closer study of Elizabethan and Jacobean drama, excluding Shakespeare.

303b. *English Poetry from Spenser to Donne*: Mr. Sprague.

The principal poets studied are Spenser, Sidney, Shakespeare (the narrative poems and the sonnets), and Donne.

304. *The Seventeenth Century*: Mrs. MacCaffrey.

Among the writers studied are Bacon; Donne and the Metaphysical poets; Ben Jonson and his school; Sir Thomas Browne. About a third of the time is devoted to Milton, and special attention is given to the thought of the period.

305. *The Eighteenth Century*: Miss Woodworth.

The age of Pope and Swift; the rise of the novel; Dr. Johnson and his circle.

FINAL EXAMINATION: The final examination is in three parts:

1. Literary criticism, literary genres, and problems of style. Based upon the reading of certain critical works of fundamental importance. Each student is expected to draw illustrative material from the fields in which she has elected to work.
2. An examination in one of the following periods. The student must choose a period other than that which embraces her special field.
 - a. The Middle Ages (to 1500)
 - b. The Renaissance (1500-1660)
 - c. Neo-classicism and Romanticism (1660-1832)
 - d. The Nineteenth and Twentieth Centuries (English or English and American)
3. An examination in one of the following fields of concentration: Old English; Middle English; The Drama to 1642; Elizabethan Literature, non-dramatic; The Seventeenth Century; The Eighteenth Century; Romanticism; Victorian Literature; The Novel; The Drama from 1660 to the Present Time; English and American Literature, 1890-1939; American Literature.

With the consent of the Department an examination in an allied subject may be substituted for the examination in the special field.

HONORS WORK: In the Senior year Honors work, consisting of independent reading, reports and conferences, is offered to students of marked ability.

French

PROFESSOR:	MARGARET GILMAN, PH.D.*
VISITING PROFESSOR:	WILLIAM J. ROACH, PH.D.
ASSISTANT PROFESSORS:	MARIO MAURIN, PH.D., <i>Acting Chairman</i>
	MICHEL GUGGENHEIM, PH.D.
	PHILIP KOCH, PH.D.
VISITING LECTURERS:	RENÉ N. GIRARD, PH.D.
	MARCEL M. GUTWIRTH, PH.D.

The major in French includes work in both literature and language. In the first year students are introduced to the study of French literature, and special attention is given to the speaking and writing of French. Two second-year courses treat French literature from the beginning to the present day. In the advanced courses a more detailed study of certain authors, genres and movements is made. One second-year course is devoted to increasing the students' competence in spoken and written French. Students are encouraged to supplement their classroom study of the language by spending the Junior year in France, or a summer in France or French-speaking surroundings, or by living for a year or two in the French house.

REQUIREMENTS IN THE MAJOR SUBJECT: French 101, 201, 202 and one advanced literature course. Students whose preparation for college has included advanced work in language and literature may, with the consent of the Department, be admitted to French 201, and substitute an advanced course for French 101.

ALLIED SUBJECTS: Any other language or literature, European History, History of Art, Music, Philosophy.

1. *Elementary French*: Mr. Koch, Mr. Guggenheim.

The speaking and understanding of French are emphasized, particularly during the first semester. The course, which meets five times a week, is the equivalent of two years of school French.

2. *Intermediate French*: Mr. Guggenheim, Mr. Maurin.

The emphasis on speaking and understanding French is continued, texts from French literature are read, and short papers are written in French.

* Deceased May 27, 1958.

101. *Readings in French Literature with Practical Exercises in the French Language*: Mr. Guggenheim, Mr. Gutwirth, Mr. Koch.

The works read are chosen from various periods and genres, and include drama, poetry, novels and short stories. Oral expression and practice in writing are emphasized.

201. *French Literature from the Chanson de Roland to 1800*: Mr. Maurin, Mr. Koch.

202. *French Literature from 1800 to 1950*: Mr. Gutwirth, Mr. Maurin.

- 203c. *Advanced Training in the French Language*: Mr. Maurin, Mr. Guggenheim.

- [301. *French Lyric Poetry*: Mr. Maurin.]

In the first semester special attention is given to the poetry of the sixteenth and early seventeenth centuries, and in the second, to the poetry of the last hundred years.

302. *French Drama*: Mr. Maurin, Mr. Koch.

Special study is made of the drama of the seventeenth and twentieth centuries.

303. *The French Novel from 1700 to 1950*: Mr. Girard, Mr. Guggenheim.

- [304. *French Essayists and Moralists*: Mr. Maurin, Mr. Koch.]

Man and his world as interpreted by such writers as Montaigne, Pascal, Diderot, Gide, Camus and Sartre.

JUNIOR YEAR ABROAD: Students majoring in French may by a joint recommendation of the Dean of the College and the Department of French be allowed to spend their Junior year in Paris under the Junior Year in France Plan, under the auspices of Sweet Briar College.

FINAL EXAMINATION: The final examination is in three parts:

1. An oral examination to test the student's command of the French language.
2. A three-hour written examination on a period of French literature.
3. A three-hour written examination on the development of a literary genre through French literature.

An examination in an allied subject may be substituted for one of the two written examinations.

HONORS WORK: On the recommendation of the Department, students in their Senior year will be admitted to Honors work consisting of independent reading, conferences and a long paper.

Geology

PROFESSORS:	EDWARD H. WATSON, PH.D., <i>Chairman</i>
	LINCOLN DRYDEN, PH.D.
	DOROTHY WYCKOFF, PH.D.
INSTRUCTOR:	MARIE MORISAWA, M.A.
ASSISTANT:	VERONICA MAHLSTEDT, A.B.

Geology seeks to make students more aware of the physical, natural world around them; to teach them how the present landscapes have been formed, and how modern plants and animals have evolved from earlier kinds. Physical processes like erosion, volcanic activity, and earthquakes form one large part of the subject; the history of the earth and the organisms which have peopled it form another. Geology borrows widely from its sister sciences, combining many disciplines into an attack on the problem of the earth itself. An essential part of any geologic training lies beyond the classroom, in field work.

REQUIREMENTS IN THE MAJOR SUBJECT: Geology 101, 201, 202, one advanced course. In addition, at least one of the following first-year courses are normally required: Biology, Chemistry, or Physics. The sixth unit may be chosen in Geology or in an allied field approved by the Department.

ALLIED SUBJECTS: Biology, Chemistry, Physics, Mathematics. Anthropology, Archaeology, Economics or Statistics may be accepted in special cases.

101a. *Physical Geology*: Mr. Watson, Miss Wyckoff, Miss Morisawa.

A study of the atmosphere, weathering, stream action, oceans, glaciers, earthquakes and volcanoes, and of the structures to which they give rise. Three lectures, four hours of laboratory or field work a week.

101b. *Historical Geology*: Mr. Dryden, Miss Wyckoff, Miss Morisawa.

The history of the earth from its beginning, and the evolution of the living forms which have populated it. Three lectures, two afternoons of laboratory or field work a week. A three-day field trip is taken in the spring.

[201. *Mineralogy*: Mr. Watson.]

Crystallography, elementary crystal optics, descriptive and determinative mineralogy, and elementary petrology and economic geology. Three lectures, six hours of laboratory work a week.

202. *Paleontology*: Mr. Dryden.

A systematic survey of animal groups in geologic time; in addition, a study of the environment of fossil life, and theories of evolution.

301. *Structural and Field Geology*: Mr. Watson.

The origin and analysis of the structures of igneous, sedimentary and metamorphic rocks, and geological surveying. Three lectures, six hours of laboratory or field work a week.

[302. *Stratigraphy*: Mr. Dryden.]

The origin and formation of sedimentary rocks; geologic history of typical regions of the United States; elements of petroleum geology; and study of the Ice Age.

303. *Optical Mineralogy* (first semester) and *Petrology* (second semester): Miss Wyckoff, Mr. Watson.

The optical properties of minerals and the use of the petrographic microscope. Discussion of the origin and differentiation of igneous rocks. Two lectures, about twelve hours of laboratory a week. Credit: $1\frac{1}{2}$ units.

[304. *Cartography*: Mr. Watson, Miss Wyckoff.]

Field surveying, drafting, photogrammetry, elementary geomorphology and general cartography. Open to students without previous work in Geology. Two lectures, two afternoons of laboratory a week.

305. *Geography*: Miss Wyckoff.

Discussion of geographic factors such as climate, soils, vegetation, land forms and mineral resources. General principles of economic and political geography. Three lectures, one afternoon of laboratory a week.

[306. *The Development of Scientific Thought*: Miss Wyckoff, and other members of the Faculty.]

(See Interdepartmental Course 203, page 105.)

FINAL EXAMINATION: This is in three parts:

1. An examination in general geology.
2. An examination in some special field in geology.
3. *One* of the following:
 - a. An additional special examination in geology
 - b. A general examination in an allied field
 - c. A written report on a piece of individual work

HONORS WORK: Honors work in any of the advanced fields is offered to any student who has completed the first two years in Geology with distinction.

German

PROFESSORS:	MYRA RICHARDS JESSEN, PH.D., <i>Chairman</i>
	FRITZ MEZGER, PH.D.
ASSOCIATE PROFESSOR:	JOACHIM H. SEYPPPEL, PH.D.
ASSISTANT PROFESSOR:	MARTHA M. DIEZ, M.A.
INSTRUCTOR:	HERTA STEPHENSON

The purpose of the major in German is to lay the foundation for an understanding and appreciation of German literature and civilization. To this end comprehension of the German language, of both the spoken and the printed word, is indispensable; all courses above German 1 are therefore given in German and progressive linguistic training is provided. This work should be supplemented, whenever possible, by living in the German House, or by spending a summer in the Middlebury Summer School or in one of the summer schools of Germany, Austria or Switzerland; and/or by spending the Junior year in Munich with the Wayne University Group.

REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in German will be expected to take three units above the elementary level, including German 202 and at least one advanced course.

ALLIED SUBJECTS: Any Language or Literature, History, Philosophy, Music, History of Art. The Department will advise which courses in these fields are acceptable.

1. *Elementary German* (Speaking and Reading): Members of the Department.

The course, meeting five times a week, offers the foundation of the language according to the aural-oral method, with emphasis on reading in the second semester.

101. *Introduction to German Literature*: Mr. Seyppel.

Survey of the main periods of German literature. Interpretation of texts from the early period to the present; brief oral and written reports.

- [201c. *German Composition*.]

Practice in the writing of German, based on readings in the cultural history of Germany; continued linguistic training.

202. *The Age of Goethe*: Mrs. Jessen.

German literary movements in the period 1750-1830, with emphasis upon the life and works of Goethe and his contemporaries. Brief written reports on reading.

- [301. *Advanced Training in Translation*.]

- [302. *The Classics of the Nineteenth Century*: Mr. Seyppel.]

A survey of German literary developments from the death of Goethe to Nietzsche and Hauptmann, with special emphasis upon the great dramatists and lyric poets. Short critical papers.

- [303. *German Literature from 1850 to 1940*: Mr. Mezger.]

Reading of representative works selected from the following authors: G. Keller, C. F. Meyer, Storm, Fontane, Nietzsche, G. Hauptmann, Thomas Mann, Rilke, George, Hofmannsthal, Hesse, Binding, Carossa, Kafka, Wiechert, Schröder.

304. *Introduction to German Philology*: Mr. Mezger.

Development of the German language in the various periods. Analysis of important works.

305. *Middle High German Literature*: Mr. Mezger.

Reading of important works, partly in translation, partly in the original.

306. *The German "Novelle"*: Mrs. Jessen.

After a brief survey of earlier phases of this form, the course deals with its development from Goethe to Thomas Mann. Short critical papers.

[307. *The German Drama*: Mrs. Jessen.]

The history of the German drama from Lessing and the Period of the Enlightenment to modern times. Short critical papers.

FINAL EXAMINATION: The final examination for students majoring in German consists of three papers:

1. An examination on selected topics from the history of German literature, to be written in German.
2. An examination on the history of a literary form, or on the History of the German Language, or on an allied subject.
3. An examination on a period of German literature, or on an allied subject, if none has been offered under 2.

HONORS WORK: Qualified students are admitted to Honors work on the recommendation of the Department.

Greek

PROFESSOR:	RICHMOND LATTIMORE, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR:	MABEL LOUISE LANG, PH.D.
INSTRUCTOR:	ROSAMOND KENT SPRAGUE, PH.D.

The courses in language and literature are designed to acquaint the students with the various aspects of ancient Greek culture through a mastery of the Greek language and a comprehension of Greek mythology, religion and the other basic forms of expression through which that culture developed. The works of epic and tragic poets, philosophers and historians are studied both in their historical context and in relation to subsequent Western thought.

REQUIREMENTS IN THE MAJOR SUBJECT: Greek 1, 101, 201 and 301. The fields of specialization in Greek 301 will be decided by each student in consultation with the Department.

ALLIED SUBJECTS: Ancient History, Classical Archaeology, any language, Philosophy.

1. *Elementary Greek*: Miss Lang.

Elements of grammar with prose composition and selected reading from ancient authors and the *New Testament* in the first semester; in the second semester, the *Apology* of Plato.

101. *Herodotus and Tragedy*: Mr. Lattimore, Miss Lang, Mrs. Sprague.

Private reading and prose composition are required.

102c. *Homer*: Miss Lang.

201. *Plato and Tragedy*: Mr. Lattimore.

Private reading and prose composition are required.

[301. *Hesiod, Lyric, and Aristophanes*: Miss Lang, Mr. Lattimore.]

The student selects her work from this field in consultation with the Department.

203.* *Greek Literature in Translation*: Miss Lang, Mr. Lattimore, Mrs. Sprague.

The epic, lyric and dramatic poetry as well as the early prose works are examined and interpreted as expressions of Greek culture.

FINAL EXAMINATION: The final examination for students majoring in Greek consists of:

1. Sight Translation of Greek to English.
2. Two papers from the following fields: Homer, Attic Tragedy, Lyric Poetry and Aristophanes, Fifth-century Historians, Fourth-century Attic Prose. A student may substitute for one of these, a paper in one of the Allied Subjects.

HONORS WORK: Honors may be taken either in conjunction with advanced courses or after their completion.

History

PROFESSORS:

CAROLINE ROBBINS, PH.D.,
Chairman

FELIX GILBERT, PH.D.

ASSOCIATE PROFESSOR:

ARTHUR P. DUDDEN, PH.D.

ASSISTANT PROFESSORS:

DAVID J. HERLIHY, PH.D.

RAYMOND F. BETTS, *D. d'Univ.*, PH.D.

INSTRUCTOR:

MARY MAPLES, M.A.

PROFESSOR OF LATIN:

THOMAS ROBERT SHANNON BROUGHTON,
PH.D.

The chief aim of the History major is to give the student a sense of historical perspective and an insight into historical method. The development of ideas and institutions—political, social and economic—is stressed rather than the accumulation of data about particular events. At the same time a more intensive study of certain topics and periods is required of every student in order to train her in the use of documents and to enable her to evaluate different kinds of source material. Extensive reading is assigned in all courses to familiarize History majors with the best historical writing and, in every year course except History 101, critical or narrative essays are required.

REQUIREMENTS IN THE MAJOR SUBJECT: In general, students are expected to offer four units of History and two units of allied work, the selection of courses depending upon the student's desire to specialize in Modern, Mediaeval or Ancient History. Students concentrating in Modern History must take some work in Ancient or Mediaeval History. History 301 is required of all students offering Modern History for the Final Examination; History 305 for all students offering Mediaeval History.

ALLIED WORK: Courses in Economics and Political Science are recommended for History majors. Advanced courses in Philosophy, History of Art, Literature, Anthropology and Sociology are accepted as allied work if the subject matter is related to that of the History courses elected. For students specializing in Mediaeval and Ancient History, Greek, Latin and Archaeology are especially recommended.

101. *Mediaeval and Modern Europe:* Members of the Department.

The purpose of this course is to give a broad view of the development of European civilization from the fall of Rome to the present day as a general background for courses in other departments as well as for more advanced history courses. One of the divisions is organized for the benefit of students who have had a survey course in the last two years of their school preparation and devotes most of the year to a more intensive study of a period not covered by the other courses offered by the Department.

[201. *History of England to 1783:* Miss Robbins.]

This course is open to all students. The treatment is topical, although a general chronology is maintained. Prehistoric Roman,

Saxon, Norman and later English society, constitutional, economic and intellectual development are among the subjects studied. Ireland, Scotland and Wales receive special attention. Given in alternate years.

202. *History of the United States*: Miss Maples, Mr. Dudden.

A survey of American civilization to the present day. The first semester covers colonial and national developments to the end of the Civil War period. The second semester accounts for the emergence of modern America.

203. *Mediaeval Civilization*: Mr. Herlihy.

Western European development from the fall of Rome to about 1350. Economic, institutional and intellectual developments in the major kingdoms of the West and the history of the Latin Church will be included. Given in alternate years.

204a. *Revolutionary Europe 1787-1850*: Mr. Betts.

About one half of the semester is devoted to the French Revolution; the second half to the spread of revolutionary ideas and the idea of nationalism throughout Western Europe during the Napoleonic period and the first half of the Nineteenth Century culminating in the Revolution of 1848.

204b. *Europe and Its Expansion in the Nineteenth Century*: Mr. Betts.

European, continental, and overseas development from the period of the Revolutions of 1848 until the end of the Boer War in 1902. Stress will be placed on industrial developments, imperialism; on European activities in Africa, Asia, and the Near East.

205.* *Ancient History*: Mr. Broughton.

The first semester is devoted to study of the history of the ancient Near East and of Greece to the rise of Macedon; the second to the history of Rome and the hellenistic world to the reign of Constantine I. The course demands essays, and reading of typical sources for each period.

206. *History of Russia*: Mr. Herlihy, Mr. Gilbert.

A survey of Russian History until the Revolution of 1917. The first semester is devoted to Russian history until Peter the Great; special emphasis will be placed on the Byzantine background of Russian History. The second semester deals with Russia under Tsarism.

[207a. *Rise of the Americas.*]

This course deals with the rise and development of the Spanish, Dutch, British and French empires overseas and the repercussions on European economy and politics of the new balance of power in America. Given in alternate years.

[208. *Social and Economic History of Mediaeval and Early Modern Europe:* Mr. Herlihy.]

Topics in the Social and Economic History of Mediaeval and Early Modern Europe. Topics considered include European economic geography, agricultural settlements, demographic trends, rise of the manor and seigneurie, rise and development of towns, agricultural and industrial technology, commerce and commercial institutions, social structure and economic theories. Particular attention is paid to the period between the seigneurial-urban revolution of the eleventh century and the industrial revolution of the eighteenth.

301. *History of Europe since 1890:* Mr. Gilbert.

The first semester includes the settlement after the first World War; the second, the events from 1919 to the present. The course deals not only with diplomatic events but special emphasis is placed on the internal developments in the European states and on their social structure.

303a. *The Expansion of the American Nation:* Mr. Dudden.

The period stressed ranges from the last quarter of the nineteenth century to the end of the first World War. Inquiry is directed to the fundamental problems posed for the United States by industrialism, large-scale immigration, populism, progressivism, and imperialism.

303b. *The American People in the Recent Past:* Mr. Dudden.

The United States in our time, emphasizing historic political, social, economic, and intellectual developments since the first World War.

304a. *English History in the Nineteenth Century:* Miss Robbins.

Special attention is given to the structure of English government and its adaptation to modern economic and social conditions as well as to the growth of the second empire and its institutions. Given in alternate years.

[305. *Renaissance and Reformation*: Mr. Gilbert]

The course is concerned with European History from the Fourteenth to the Sixteenth Century. The first term deals with the Renaissance, the second with the Reformation. Emphasis will be placed not only on the political and social developments, but also on the intellectual history of the period. Given in alternate years.

306a. *The Enlightenment*: Miss Robbins.

The rise of absolute government in Europe between 1620 and 1789 and its political concomitants occupies the first half of the semester. In the second half, the intellectual climate of the period is studied.

306b. *Great Historians*: Miss Robbins.

FINAL EXAMINATION: The final examination for students in History consists of three papers, two of which must deal with general European History. Unless special permission is given by the Department these two fields should form a sequence in Mediæval or in Modern History. The fields offered are as follows:

1. Ancient History to A.D. 378 (Special field)
2. History of Europe 378 to 1618 (Political and Diplomatic)
3. History of Europe 378 to 1618 (Intellectual and Social)
4. History of Europe 1618 to 1950 (Political and Diplomatic)
5. History of Europe 1618 to 1950 (Intellectual and Social)
6. History of England (Special field)
7. History of the United States (Special field)

The papers in Ancient, English and American History will be based on concentrated study of a special field selected by the Department to meet the needs of the senior class. With the consent of the departments concerned a student may write her third paper in a field of allied work.

HONORS WORK: Students admitted to this work meet the instructor regularly for the discussion of reading in a selected period. An essay based on source material must be presented before May 1st. The award of the degree with Honors in History will depend on the character of this honors paper and on the candidate's performance in the final examination.

History of Art

PROFESSORS:	JOSEPH CURTIS SLOANE, M.F.A., PH.D., <i>Chairman</i> ¹
	ALEXANDER COBURN SOPER, M.F.A., PH.D. ²
	RICHARD BERNHEIMER, PH.D.*
ASSOCIATE PROFESSOR:	JAMES W. FOWLE, PH.D.
LECTURER:	MARIANNE W. MARTIN, M.A.
CURATOR OF SLIDES AND PHOTOGRAPHS:	To be announced.
ARTIST IN RESIDENCE:	FRITZ JANSCHKA
ASSISTANT:	ANNE COFFIN GARSON, M.A.

The major in History of Art is designed to furnish a basic understanding of the fine arts as they have evolved in Western and Far Eastern cultures. After a thorough grounding in principles, criteria of quality, and general historical developments, the student advances to a more detailed study of particular fields in courses on the second-year and advanced levels. Considerable latitude of choice is allowed, but the major program must constitute a coherent whole.

Under the guidance of the Artist in Residence, studio work in creative art is offered to all interested students. There is no tuition fee and academic credit is not granted for this work.

REQUIREMENTS IN THE MAJOR SUBJECT: A minimum of four full courses (or the equivalent) is required for a major: Art 101a and b, Art 201a and b, and two other courses, one of which shall be considered an advanced course.

ALLIED SUBJECTS: Classical Archaeology, (It is expected that students majoring in Art History will take Archaeology 101 as an allied subject, preferably as early in their college careers as possible), English, Modern Languages, History, Philosophy, Music, Anthropology and History of Religion.

101a. *An Introduction to the History of Art*: Mr. Sloane.

A philosophical, technical, and historical introduction to the

1. Semester I, 1958-1959.

2. On leave of absence for semester I, 1958-1959.

* Deceased May 29, 1958.

field of fine arts. Laboratory work in basic principles of design, color, and technique will be required in conjunction with the lectures. Three lectures, one hour of conference, and two hours of laboratory each week.

101b. *Art of the Early Christian, Byzantine and Romanesque Periods*: Mr. Soper.

A survey of the origins and early history of Western art. Three lectures, one hour of conference, and two hours of laboratory each week.

201a. *Gothic and Renaissance Art*: Mrs. Martin.

A survey of these periods in all major art forms.

201b. *Baroque and Modern Art*: Mrs. Martin.

A survey of these periods in all major art forms.

Note. For students desiring elective courses, Art 101a is prerequisite to 101b, 201a and 201b. However, a student with this prerequisite can take any of the three survey courses without regard to sequence. Thus Art 201b could follow Art 101a; however, this order is not recommended for prospective majors.

202. *Italian Art*: Mrs. Martin.

The arts of Italy from the thirteenth to the end of the fifteenth century are discussed in the first semester. The second semester covers the later phases of Italian art.

301b.* *Painting in China and Japan*: Mr. Soper.

The course covers the period from earliest times to the eighteenth century.

302a. *American Art*: Mr. Sloane.

The arts in America from colonial times to the present with emphasis on painting.

303. *Modern Art*: Mr. Fowle.

The first semester covers architecture and sculpture, the second, painting. Both carry from the neoclassic period to the present day.

FINAL EXAMINATION: The final examination for students majoring in the History of Art consists of three parts of three hours each:

1. An examination conducted with slides and/or photographs testing the student's ability to identify important monuments and to analyze stylistic and iconographic elements within the field of major concentration.

2. A written examination on fundamental problems of style, evolution and cultural relationships in art.
3. A detailed examination on *one* of the following fields chosen from the broader field of major concentration:
Early Mediaeval Art, Romanesque and Gothic Art, Art of the Northern Renaissance, Italian Art after 1300, Art of the Seventeenth and Eighteenth Centuries, Modern Art (after 1800), Art of the Far East (or an acceptable subdivision).

HONORS WORK: Honors work is offered to students recommended by the Department.

History of Religion

PROFESSOR OF LATIN: AGNES KIRSOPP MICHELS, PH.D.

PROFESSOR OF PHILOSOPHY
AND RELIGION: GEDDES MACGREGOR, B.D., LL.B.,
D.PHIL., *D.ès L.*¹

VISITING PROFESSOR
OF PHILOSOPHY: HYWEL D. LEWIS, M.A., B. LITT.

Courses in the History of Religion are designed to supplement the work offered in other departments. While no major work is offered in the History of Religion, certain departments accept these courses as allied work. Philosophy of Religion may be taken in the Department of Philosophy as one of the fields for the Final Examination in the Major Subject.

103. *Literary History of the Bible*: Mrs. Michels.

The history of the Bible, with special emphasis on analysis of text and on literary forms.

[201a. *Comparative Religion*: Mr. MacGregor.]

[201b. *History of Christian Thought*: Mr. MacGregor.]

203. *Philosophy of Religion*: Mr. Lewis.

This course is also listed as Philosophy 203.

[203b. *Mediaeval Philosophy*: Mr. MacGregor.]

1. On leave of absence for the year 1958-1959.

Italian

PROFESSOR: ANGELINE HELEN LOGRASSO, PH.D., *Chairman*
Appointment to be announced

The aims of the major are to acquire a knowledge of the Italian language and literature and to acquire an understanding of Italian culture and its contribution to Western Civilization. All courses with the exception of the course in Dante are conducted in Italian. Majors in Italian are urged to spend the Junior Year in Italy or to study in approved summer schools in Italy or in the United States.

REQUIREMENTS IN THE MAJOR SUBJECT: Italian 101, 201, 202, and two other advanced courses.

ALLIED SUBJECTS: Any other language or literature, History, History of Art, Philosophy, Music, Political Science; with departmental approval, any other field allied to the student's special interests.

101. *Italian Language*: Miss Lograsso.

A practical knowledge of the language is acquired through speaking, hearing, writing, and reading, going from concrete situations to the expression of abstract ideas and with a gradual introduction to the reading of contemporary texts.

[102c.* *Dante in English Translation*: Miss Lograsso.]
The *New Life* and *Divine Comedy*.

[103c.* *Literature of the Italian Renaissance in English Translation*: Miss Lograsso.]

From Petrarch to Tasso; pastoral literature; literary criticism and aesthetic theories of the Renaissance with special reference to their influence on other literatures.

[201. *Classics in Italian Literature*: Miss Lograsso.]

Reading and explanation of texts, with a study of literary history; conducted mostly in Italian.

202. *Dante*: Miss Lograsso.

The *Vita Nuova* and *Divina Commedia*, with some attention to the minor works.

203. *Intermediate Course in the Italian Language*: Miss Lograsso.

Readings from modern Italian authors and topics assigned for composition and discussion.

[302c. *Advanced Course in the Italian Language*: Miss Lograsso.]

Advanced work in composition.

303. *Italian Literature of the Rinascimento*: Miss Lograsso.

[304. *Italian Literature of the Romantic Period*: Miss Lograsso.]

JUNIOR YEAR ABROAD

Students approved by the Department and the Dean of the College may be recommended for the Junior year in Perugia and Florence under the auspices of the Smith College Group.

FINAL EXAMINATION: The final examination consists of three parts:

1. The Italian Language: ability to speak and understand the spoken idiom; ability to write it.
2. Italian Literature and Literary History.
3. The study of a single genre or topic throughout Italian literature, or a paper on an allied subject.

For the second part, the emphasis may be placed on the Mediaeval, Renaissance, Romantic, or Modern period.

HONORS WORK: After the completion of the second-year course a student may be recommended for Honors in Italian. The student works in a special field adapted to her own interest under the direction of the Department.

Latin

PROFESSORS: THOMAS ROBERT SHANNON BROUGHTON, PH.D.,
Chairman

BERTHE MARIE MARTI, PH.D.

AGNES KIRSOPP MICHELS, PH.D.

INSTRUCTOR: KATHERINE A. GEFFCKEN, M.A.

The major in Latin is planned to give the students familiarity, through careful reading in the original, with the most

important works of Latin literature and an understanding of Roman civilization as revealed in literature. A further aim of the major is to give the students some sense of the importance of Roman literature in our tradition and of the contribution of Roman civilization to the modern world. Study of language and style is an essential part of the work, but only one course is entirely devoted to such study. Students are given an opportunity to choose whether they wish to work intensively on literary criticism or on problems dealing with Roman civilization.

REQUIREMENTS IN THE MAJOR SUBJECT: Latin 101, 201 and either 301 or 302. Honors students are required to take Latin 203. Students who plan to teach Latin are advised to take this course.

ALLIED SUBJECTS: History, Classical Archaeology, Greek, History of Art, History of Religion, Philosophy, any modern literature.

1. *Elementary Latin*: Mrs. Michels.

This course is planned to cover three units of entrance Latin. Students who have completed it satisfactorily may take Latin 101.

2. *Intermediate Latin*: Mrs. Michels, Miss Geffcken.

Prerequisite: Two units of entrance Latin. The course includes a review of grammar and reading in prose and poetry equivalent to two years of entrance Latin.

101. *Latin Literature*: Miss Marti, Mrs. Michels, Miss Geffcken.

Prerequisite: At least three units of entrance Latin. Students with four units of entrance Latin will be placed in a separate section. Selections will be read from the poems of Catullus, a play of Plautus, the *Eclogues* of Vergil and from Lucretius, in the first semester; and from Livy's *History* and the *Odes* of Horace, in the second.

201a. *Plautus, Terence, and Horace*: Mr. Broughton.

Reading in the plays of Plautus and Terence during the first half of the semester and from the *Satires* and the *Epistles* of Horace during the second.

201b. *Latin Literature of the Silver Age*: Miss Marti.

Reading from the works of the chief authors with special attention to the development of literary types during the period.

202c.* *Mediaeval Latin Literature*: Miss Marti.

Prerequisite: Four units of entrance Latin or Latin 2, or

Latin 101. The reading includes selections from the most important mediaeval writers from St. Augustine to Thomas Aquinas.

203. *Latin Style*: Miss Marti, Mrs. Michels.

A study of the style and technique of the main Roman authors and of the chief metres of Roman poetry with practice in the writing of Latin prose and verse. This course may be taken as one half-unit throughout the year by students wishing to omit the material on versification.

301a. *Vergil's Aeneid*: Miss Geffcken.

301b. *Tacitus and Livy*: Mr. Broughton.

[302a. *Lucretius*: Mrs. Michels.]

[302b. *Cicero and Caesar*: Mr. Broughton.]

FINAL EXAMINATION: The final examination for students majoring in Latin consists of three three-hour papers in the following fields:

1. Latin Sight Translation.
2. An examination on one of the following subjects:
 - a. Latin Literature of the Republic
 - b. Latin Literature of the Empire
 - c. Latin Literature of the Ciceronian and Augustan Age
 - d. Roman History from the Sources (100 B.C. to 70 A.D.).
3. An examination on one of the following subjects:
 - a. An allied subject (Students are advised if possible to take the third paper in Greek)
 - b. A second subject from Group 2 (Choice must avoid duplication of material)
 - c. The development in Latin literature of an important literary type
 - d. An important period or type in Mediaeval Latin Literature
 - e. Latin Prose Style

HONORS WORK: Honors work either in classical or in mediaeval Latin is offered to qualified seniors. The subject will be determined by the interests of the student. The work is carried out under the direction of one member of the Department and the results are presented in a paper.

Mathematics

PROFESSORS:	JOHN CORNING OXTOBY, M.A., <i>Chairman</i>
	MARGUERITE LEHR, PH.D.
ASSOCIATE PROFESSOR:	HAROLD W. KUHN, PH.D. ¹
LECTURER:	LOUIS SOLOMON, PH.D.
ASSISTANT:	DOROTHEA J. RHEA, M.A.

The major is designed to provide a balanced introduction to the subject, emphasizing its nature both as a deductive and as an applied science, at the same time providing the technical foundation for more advanced study. The courses in calculus are basic for all applications of mathematical analysis and for more advanced work in function theory. The courses in algebra and geometry introduce the student to some of the unifying ideas and postulational methods that are characteristic of much of modern mathematics.

REQUIREMENTS IN THE MAJOR SUBJECT: Mathematics 101, 201, 202c, 301, 303a, and at least one other advanced half course.

ALLIED SUBJECTS: Chemistry, Economics, Philosophy, Physics and Psychology.

101. *Analytic Geometry and Calculus*: Miss Lehr, Mr. Solomon.

Plane analytic geometry, including the necessary elements of trigonometry; Differential Calculus of both algebraic and transcendental functions; an introduction to integration. The interplay between mathematical ideas and applications is stressed.

201. *Second Year Calculus*: Mr. Oxtoby.

The definite and indefinite integral, infinite series, partial derivatives, multiple integrals, differential equations, with applications to geometry, physics, and chemistry.

202c. *Solid Analytic Geometry and Algebra*: Mr. Solomon.

Determinants, vectors, matrices, and selected topics from the Theory of Equations; linear algebra motivated by and applied to space geometry; classification and transformation of planes and quadric surfaces.

1. On sabbatical leave for the year 1958-1959.

301. *Advanced Calculus*: Mr. Otoxby.

The classical theory of real functions, based on Cantor's construction of the real number system; the Riemann integral, functions defined by power series, Fourier series, functions of several variables. Prerequisite: Mathematics 201.

[302b. *Introduction to Geometric Theories*: Miss Lehr.]

Analytic generalizations and group-theoretic classification, as related to postulational methods and the problem of introducing coordinates. Development motivated from the basic projective, Euclidean, and non-Euclidean space theories. Prerequisite: Mathematics 202c.

303a. *Introduction to Abstract Algebra*: Mr. Solomon.

Permutations, linear transformations, abstract groups, rings, and fields; postulational characterization of number systems. Prerequisite: Mathematics 202c.

304a. *Theory of Probability and Statistics*: Miss Lehr.

Mathematical formulation of problems of statistical inference, exhibiting the inherent probability aspect. Probability distributions for discrete and continuous ranges; sampling theory; central limit theorems; tests of hypotheses. Prerequisite: Mathematics 201.

[305b. *Topics in Differential Geometry*: Miss Lehr.]

306b. *Theory of Numbers*: Mr. Solomon.

[310. *Theory of Functions of a Complex Variable*: Mr. Otoxby.]

Special functions, conformal mapping, the general theory according to Cauchy, singular points, Laurent series, series of partial fractions, infinite products, elliptic functions. Prerequisite: Mathematics 301.

[311b. *Differential Equations*: Mr. Otoxby.]

General methods, existence theorems, linear equations and Wronskians, oscillation and separation theorems, partial differential equations and boundary-value problems. Prerequisite: Mathematics 301 (may be taken concurrently).

204.* *Introduction to Probability and Statistics*: Miss Lehr.

A course designed to develop the mathematical vocabulary necessary for study of quantitative data. Descriptive methods for frequency distributions and time series; correlation. Elements of probability, sampling, and tests of significance.

FINAL EXAMINATION: The final examination consists of three parts: (a) an examination in analysis, (b) an examination in algebra and geometry, and (c) an examination in some particular branch of advanced analysis or geometry, or in an allied field.

HONORS WORK: Qualified students are admitted to Honors work on recommendation of the Department.

Music

PROFESSOR AND DIRECTOR

OF ENSEMBLE GROUPS: AGI JAMBOR, M.A.

VISITING PROFESSOR: HORACE ALWYNE, F.R.M.C.M.

ASSOCIATE PROFESSOR AND

DIRECTOR OF CHORUS: ROBERT L. GOODALE, A.B., B.Mus.,
A.A.G.O., *Chairman*

ASSISTANT PROFESSOR: SYLVIA W. KENNEY, B. Mus., Ph.D.

ASSISTANT: ELIZABETH E. BOOTH, M.A.

DIRECTOR OF ORCHESTRA: CHARLES W. LUDINGTON, M.F.A.

The purpose of the Music major is to enable the student to appreciate the significance of music from an historical and sociological as well as from an aesthetic point of view and to develop a technique of intelligent listening, a faculty of critical judgment, and the ability to use the materials of music as a means of expression for creative talent.

Students in the courses in History and Appreciation of Music must devote two hours or more a week to listening to gramophone records assigned by the Department.

REQUIREMENTS IN THE MAJOR SUBJECT: Music 101, 102, and at least two and one-half units of additional work, the selection of courses depending upon the student's desire to specialize in the History and Literature of Music or the Technique of Composition. A student intending to major in Music must have sufficient knowledge of pianoforte or organ playing to enable her to play music of the technical difficulty of a Bach Figured Chorale. She is strongly urged to be a member of the Chorus or the Orchestra and/or an Ensemble Group.

ALLIED SUBJECTS: History, History of Art, Modern Languages, English, Greek, Latin, Philosophy, History of Religion.

101. *An Introduction to the History and Appreciation of Music*: Miss Kenney.

A general survey of music in western civilization, with emphasis on the evolution of polyphonic music from the Tenth to the Twentieth Century.

102. *Music Materials*: Mr. Goodale.

A course in the elements of theory. The study of Harmony and Counterpoint, simple formal analysis, and an introduction to Orchestration.

201. *The Romantic Period*: Mr. Alwyne.

An intensive study of nineteenth century music. The Symphonic Poem, Art-Song and Music-Drama. Expansion of orchestral and pianoforte technique; development of symphonic and chamber-music forms; growth of Nationalism. Prerequisite: Music 101 or its equivalent.

202. *Advanced Theory and Analysis*: Mr. Goodale.

A continuation of Music 102, with emphasis on analysis (harmonic, contrapuntal and formal) of larger forms. Prerequisite: Music 102 or its equivalent.

- 203c. *Bach*: Mme Jambor.

Prerequisite: Music 101 or its equivalent.

- 204c. *The Classical Period*: Mme Jambor.

Prerequisite: Music 101 or its equivalent.

- 301a. *Opera and Music Drama*: Miss Kenney.

The rise of opera in the Seventeenth Century. Studies in opera technique and theory from the time of Monteverdi through Wagner. Prerequisites: Music 101 and 102 or their equivalents.

- 301b. *Music of the Twentieth Century*: Mr. Goodale.

An historical and analytical survey of the main trends of contemporary music. Prerequisites: Music 101, 102, and 202 or their equivalents.

- [302a. *Mediaeval Music*: Miss Kenney.]

The rise of liturgical music in the early Christian Church. The development of polyphony in the Tenth Century, and the evolution of sacred and secular music up to 1450. Prerequisites: Music 101 and 102 or their equivalents. Given in alternate years with Music 301a.

[302b. *Renaissance and Baroque Music*: Miss Kenney.]

The great periods of vocal counterpoint during the Fifteenth and Sixteenth Centuries. The creation of new forms in the Seventeenth Century and the development of dramatic and instrumental music up to the time of Bach. Prerequisites: Music 101 and 102 or their equivalents. Given in alternate years with Music 301b.

[303a. *Orchestration*: Mr. Goodale.]

Prerequisites: Music 101, 102, and 202 or their equivalents. Music 202 may be taken concurrently with this course.

304c. *Interpretation of Keyboard Music, Seventeenth Century to the Present*: Mme Jambor.

Prerequisites: Music 101 and 102 or their equivalents.

305. *Free Composition*: Mr. Goodale.

This course can be taken only with the permission of the instructor. It is designed for those students whose chief interest lies in the field of composition.

HONORS WORK: Honors work is offered for students recommended by the Department.

FINAL EXAMINATION: The final examination consists of three parts with three-hour papers in each:

1. The History of Music.
2. The Theory of Music.
3. Special field, which may be taken in an allied subject.

The following organizations, carrying no academic credit, are sponsored by the Department:

The College Chorus, a group of about 90 members. The Chorus participates in concerts with choruses from men's colleges and also takes part in the College chapel services. Major works for women's chorus and mixed chorus are studied and performed. The Double Octet, drawn from the Chorus on a competitive basis, is frequently featured at concerts and sometimes goes on trips as an independent unit.

The Orchestra, organized jointly with Haverford College. It plays concerts of its own, and frequently joins the Chorus in the presentation of major works.

The Ensemble Groups, also organized jointly with Haverford College. Students in these groups are afforded the oppor-

tunity of studying chamber music literature at first hand, as well as the experience of playing in public at student recitals.

Lessons in pianoforte, organ and voice may be taken at the student's expense, with no academic credit. Lessons in other instruments may be arranged locally or in Philadelphia. The Department will be glad to assist in these arrangements.

Philosophy

PROFESSORS:	MILTON CHARLES NAHM, B.LITT., PH.D., <i>Chairman</i>
	JOSÉ MARÍA FERRATER MORA, <i>Licenciado en Filosofía</i>
	GEDDES MACGREGOR, B.D., LL.B., D.PHIL., <i>D.ès L.</i> ¹
	ISABEL SCRIBNER STEARNS, PH.D.
VISITING PROFESSORS:	PAUL SCHRECKER, PH.D., LL.D.
	HYWEL D. LEWIS, M.A., B.LITT.
ASSOCIATE PROFESSOR:	HUGUES LEBLANC, PH.D. ²
LECTURER:	ANNA TERESA TYMIENIECKA, PH.D.
ASSISTANTS:	MARTHA ELAINE WILLIAMS, M.A.
	Appointment to be announced.
INSTRUCTOR IN GREEK:	ROSAMOND KENT SPRAGUE, PH.D.

The major work is planned to acquaint the student with the historical and systematic interrelations of the significant philosophic concepts in western thought, as well as to provide training in the techniques proper to the subject.

The History of Philosophic Thought provides the major students with a common background, training, and language. Further study offers not only historical information but insight into methodology and systematization, with training in the techniques of logic and theory of value. Metaphysics, aesthetics, and the other advanced studies, besides their intrinsic importance, show the relations of philosophy to art, science, history, mathematics, and religion.

1. On leave of absence for the year 1958-1959.

2. On sabbatical leave for the year 1958-1959.

The Department aims to provide training sufficiently broad in scope and technical in procedure to equip the student for analytical, critical, and productive speculation.

REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in Philosophy are required to take the first-year course, the second year half-courses in German Idealism, Logic, Ethics, and either Recent Metaphysics or Mediaeval Philosophy, and one advanced course. With permission, students may take second-year courses for third-year credit.

ALLIED SUBJECTS: Biology, Chemistry, Economics, English, Greek, French, History, Latin, Mathematics, Music, Physics, Political Science, Psychology, and certain courses in History of Religion and Sociology and Anthropology.

101. *History of Philosophic Thought*: Mr. Nahm, Mr. Ferrater Mora, Miss Stearns, Mr. Lewis.

Some writings of the major philosophers, classic and modern, are studied and discussed.

- 201a. *German Idealism*: Mr. Schrecker.

The philosophy of Kant.

- 201b. *Recent Metaphysics*: Miss Stearns.

The metaphysics of Bradley, Bergson, Whitehead, and related thinkers.

- 202a. *Logic*: Mr. Ferrater Mora.

An introduction to modern logic.

- 202b. *Ethics*: Mr. Lewis.

The theory and problems of various types of ethics, hedonist, utilitarian, rational and idealist, with particular emphasis upon the analysis of action and judgment, rightness and goodness, and obligation.

203. *Philosophy of Religion*: Mr. Lewis.

The course will be divided into two parts. Part I: The origins of religion, the distinction between theism and other forms of religion, arguments for the existence of God and the problem of our knowledge of God in the light of recent thought and especially in the light of the challenge of modern empiricism, the nature of revelation and of religious experience. Part II: Varieties of religious experience, art and religion, images and

symbols in religion, the significance of doctrine, religion and the paranormal, miracles, prayer, morality and religion and immortality.

[203b. *Mediaeval Philosophy*: Mr. MacGregor.]

The history of the development of mediaeval philosophy, with more detailed study and discussion of the Thomist solution of the mediaeval problem and the basis of a modern interpretation of Thomism.

301a. *Aesthetics*: Mr. Nahm.

Types of aesthetic theory and problems concerning art, fine art, productivity, aesthetic judgment and aesthetic experience.

301b. *Theory of Knowledge*: Mrs. Tymieniecka.

An analysis of the scope, structure, and methods of science in the light of recent philosophy.

302a. *Plato*: Miss Stearns.

A detailed study of some of the later dialogues.

302b. *Philosophy of History*: Mr. Schrecker.

The philosophical interpretation of history, its meanings, and laws.

303b. *Contemporary Philosophy*: Mr. Ferrater Mora.

An outline and appraisal of some major present-day schools, such as Phenomenology, Existentialism, Logical Positivism, Neo-Scholasticism, Marxism and others.

[304b. *Aristotle*: Mr. Ferrater Mora.]

A study of Aristotle's system, with emphasis upon such fundamental problems as language, substance, change, being, and the Prime Mover.

PLAN FOR THE FINAL EXAMINATION: The final examination consists of three papers in the following fields, offering a wide choice of questions: Ancient Philosophy, Modern Philosophy, Systematic Philosophy or Philosophy of Religion. For the first two papers, a subject such as "causation," "mind," "freedom," or "time" is studied in the writings of important philosophers. For the third paper, a field in Philosophy of Religion or the philosophy of an important modern thinker is intensively examined.

PLAN FOR HONORS WORK: Honors work consists of independent reading and conferences with the instructor, directed to the

preparation of a paper on a subject dealing with the technical problems of philosophy or emphasizing the connection of philosophy with general literature, history, politics, and science, or with some special field in which the student is working.

Physics

PROFESSOR:	WALTER C. MICHELS, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	ROSALIE C. HOYT, PH.D. JOHN R. PRUETT, PH.D.
ASSISTANTS:	ANN MERRIAM, A.B. MILLARD MIER, A.B.

The plan for the physics major is based on the belief that an acquaintance with the methods used by professional workers in some particular field of intellectual activity is a necessary part of the general education of any student, whether or not that student intends to follow a professional career in the field. The courses offered emphasize the techniques which have led to our present state of understanding of the material universe rather than facts about the universe; they are designed to relate the individual parts of physics to the whole rather than to treat them as separate disciplines. In her progress from a general survey of the subject in her first-year course to the preparation for the final examination in the senior year, the student applies her growing grasp of experimental and logical techniques to increasingly independent studies of physical phenomena.

REQUIREMENTS IN THE MAJOR SUBJECT: Physics 101, 201a and 202b, and at least one and one-half units of advanced work, to be chosen from 301-305 inclusive; Chemistry 101; Mathematics 101 and 201. A third unit of Mathematics is strongly recommended.

ALLIED SUBJECTS: Biology, Chemistry, Geology, Mathematics, Philosophy, Psychology.

101. *Introduction to Modern Physics*: Mr. Pruett, Miss Hoyt.

A study of the interpretation of the principal phenomena of classical and modern physics in the light of the developments of the past sixty years. Three lectures and three hours of laboratory a week.

201a. *Electricity and Magnetism*: Miss Hoyt.

Behavior of electric currents, elementary direct current and alternating current circuit theory, magnetic effects of currents, electrostatic phenomena. Three lectures and four hours of laboratory per week. Prerequisites: Physics 101, Mathematics 201 (may be taken concurrently).

202b. *Optics*: Mr. Pruett.

Geometrical optics, interference and diffraction phenomena, polarization. Three lectures and four hours of laboratory per week. Prerequisites: Physics 201a, Mathematics 201 (may be taken concurrently).

301a. *Classical and Statistical Mechanics*: Mr. Michels.

Newtonian mechanics of particles and of rigid bodies, special relativity, applications of mechanics to ensembles with applications to ideal and real gases. Three lectures and four hours laboratory per week. Prerequisites: Physics 201a, 202b, Mathematics 201.

302b. *Atomic and Nuclear Structure*: Mr. Michels.

Experimental evidence for the properties of atoms and nuclei, development of quantum theory, Bohr theory, introduction to wave mechanics and quantum statistics. Three lectures and four hours laboratory per week. Prerequisites: Physics 301a, Mathematics 201.

304. *Introduction to Theoretical Physics*: Miss Hoyt.

The foundations of classical mechanics and electromagnetic theory, including: generalized mechanics, vibrating systems, the wave equation, Laplace's Equation, Maxwell's equations, electromagnetic waves. Vector analysis and mathematical methods are developed as needed. Four lectures a week. Prerequisites: Physics 201a, 201b, 301a and 302b (may be taken concurrently), Mathematics 201. Mathematics 301 or Chemistry 203 may be substituted for Physics 301a and 302b.

305c. *Physical Measurements*: Mr. Michels, Mr. Pruett.

Precision measurements of electromagnetic, optical, and atomic phenomena. Four hours of laboratory a week. Prerequisites: Physics 301a and 302b (may be taken concurrently).

[351.* *Application of Physics to Biology and Chemistry*: Miss Hoyt.]

The emphasis of this course is divided between the experi-

mental techniques and the theoretical methods of physics. Examples of applications of these methods and techniques will be chosen to meet the major interests of the students. Three lectures and four hours of laboratory a week. Prerequisites: Physics 101, Mathematics 101, and second-year work in either Chemistry or Biology.

FINAL EXAMINATION: The final examination for students majoring in Physics is in three parts:

1. Foundations of Physical Theory (required of all students).
2. Descriptive Physics. A student may substitute an approved examination in an allied field for this examination.
3. An examination in a special field of physics. The possible subjects include:

Acoustics

Classical Mechanics and Special Relativity

Electricity and Magnetism

Mechanics of the Atom

Optics

Thermodynamics and Statistical Mechanics

HONORS WORK: Honors work may be taken by Seniors recommended by the Department. It consists of reading and experimental work on some problems of physics.

Political Science

The Caroline McCormick Slade Department of Political Science

PROFESSOR: ROGER H. WELLS, PH.D.,

Chairman

ASSOCIATE PROFESSORS: PETER BACHRACH, PH.D.

GERTRUDE C. K. LEIGHTON, A.B., LL.B.

ASSISTANT PROFESSOR: MELVILLE T. KENNEDY, JR., PH.D.

The major in Political Science is concerned with study of ideas about the purposes of government and with analysis of the structures and processes of modern political communities.

REQUIREMENTS IN THE MAJOR SUBJECT: Political Science 101a and 102b, one unit of second-year work and one unit of advanced work, and Economics 101. The second-year courses in Political Science are open to students who are not majors in the Depart-

ment if they have completed one unit in allied subjects. With the permission of the Department, various courses at Haverford College may be taken for major or allied credit.

ALLIED SUBJECTS: Economics, Education, History, Philosophy, Psychology, Sociology and Anthropology. With the permission of the Department, certain courses offered by the Modern Language Departments may be accepted as allied subjects.

101a. *Political Process in the United States*: Mr. Bachrach, Mr. Kennedy.

An introduction to the study of American political behavior. Major attention is given to the political, economic and social beliefs of democracy and to the governmental institutions and processes through which they are expressed. Decision-making and the sharing of power are examined in relation to the individual and to political parties, pressure groups and public opinion.

102b. *Political Process in the World Community*: Miss Leighton, Mr. Kennedy.

An introduction to the study of political behavior at the international level. The course deals with the basic institutions, processes, values and resources common to peoples and nation-states.

201a. *Western Political Theory: 1500 to the Present*: Mr. Bachrach.

A study of the fundamental problems of modern Western political thought, based on an analysis of the writings of the leading theorists.

202a. *International Law*: Miss Leighton.

An examination of the doctrines and practices of international law. Traditional material is considered in the context of contemporary society, with emphasis on selected problems.

[203a. *Political Parties*: Mr. Wells.]

204b. *American Constitutional Law*: Mr. Bachrach.

A detailed analysis of selected Supreme Court decisions on four or five leading topics.

[205b. *International Organization*: Miss Leighton.]

[206b. *American State and Local Government*: Mr. Wells.]

208a. *Communism and Nationalism in Asia: China*: Mr. Kennedy.

Survey of the development of modern China, including Sino-Japanese and Sino-Russian relations. The course primarily attempts to throw light on the nature of Communist China.

[209b. *Public Opinion and Propaganda*: Mr. Bachrach.]

210. *The Soviet System*: Mr. Hunter, Haverford College.

See Interdepartmental Course 210, page 105.

211b. *Comparative Government: Britain and the Commonwealth*: Miss Leighton.

A study of democracy, political parties and other components of the constitution in Britain and the Commonwealth countries, including India. Colonial policy, especially since World War II, will be discussed.

213b. *Communism and Nationalism in Asia: Japan and South-east Asia*: Mr. Kennedy.

301. *The Theory and Practice of Democracy*.

See Interdepartmental Course 301, page 105.

[302b. *Western Political Theory: Plato to 1500*: Mr. Wells.]

[303b. *Comparative Government: France and Germany*: Mr. Wells.]

[304a. *Public Administration*: Mr. Wells.]

[305b. *American Political Theory*: Mr. Bachrach.]

306a. *Law and Society*: Miss Leighton.

An introduction to legal method and the elements of law. Typical legal problems are examined in relation to the values and needs of social institutions such as the family, business and government. Some reference will be made to these relationships outside the Anglo-American system and in non-Western culture.

307b. *The Problem of Power in Contemporary Society*: Mr. Bachrach.

A study of political power with special reference to current controversies in the United States as to the nature and sources of power, and with analysis of the implications for the democratic process.

FINAL EXAMINATION: The final examination consists of three three-hour papers, the first of which is the general examination

in Political Science and must be taken by all Seniors majoring in the Department. The other two represent more limited fields and are to be selected from the following: American Government, Comparative Government, Political Theory, and International Law and Organization. If desired, one of the papers for the final examination may deal with an allied subject. Seniors are expected to attend the weekly Senior Conference which will be in charge of Mr. Wells.

HONORS WORK: One unit of Honors work in the Senior year may be taken by Political Science majors who have the minimum required grades. This involves a weekly conference with the supervisor; independent reading, research and, where necessary, field work; and a written report or reports within the field selected which must be completed by May first.

Psychology

PROFESSOR:	RACHEL DUNAWAY COX, PH.D.
ASSOCIATE PROFESSORS:	MORTON EDWARD BITTERMAN, PH.D., <i>Chairman</i>
	DONALD ROBERT BROWN, PH.D.
	ROBERT SIMON DAVIDON, PH.D.
ASSISTANT:	NICHOLAS A. LONGO, A.B.

The Department offers to the major student a representative account of methods and findings in the principal areas of psychological inquiry. Problems of application are considered, and the relation of Psychology to other natural and social sciences is emphasized. The major program prepares the student for graduate work.

REQUIREMENTS IN THE MAJOR SUBJECT: Psychology 101; Psychology 204a; two of the following three courses: Psychology 201a, 302a, 304b; two of the following three courses: Psychology 201b, 205b, 303a; one other course in Psychology.

ALLIED SUBJECTS: Anthropology, Biology, Economics, Education, Mathematics, Philosophy, Physics, Political Science and Sociology.

101. *General Psychology:* Mr. Brown, Mr. Davidon.

A survey of basic facts and principles: development, measurement of individual differences, personality; perception, motiva-

tion, emotion, learning, thinking. Three hours of lecture and two hours of laboratory each week.

201a. *Social Psychology*: Mr. Brown.

The psychological determinants of social behavior. Three hours of lecture each week. Prerequisite: An introductory course in social science.

201b. *Comparative Psychology*: Mr. Bitterman.

The psychology of animals: instinctive activities, motivation, learning, group processes, behavior disorders. Laboratory experience with representative organisms. Three hours of lecture and three hours of laboratory each week. Prerequisite: Psychology 101.

204a. *Experimental Methods and Statistics*: Mr. Davidon.

Measurement and the design of experiments; descriptive statistics, probability, association, testing of hypotheses. Three hours of lecture and three hours of laboratory each week. Prerequisite: Psychology 101.

205b. *Perception*: Mr. Davidon.

Differentiation and organization of the physical environment; bodily processes and inner determinants of perceiving; the self and social environment as perceived. Three hours of lecture and four hours of laboratory each week. Prerequisites: Psychology 101 and 204a.

301 a and b. *Advanced Experimental Psychology*: Members of the Department.

Specialized training in a selected area of investigation. May be taken in either semester or throughout the year. Prerequisite: permission of the Department.

302a. *Psychology of the Normal Personality*: Mr. Brown.

Developmental, clinical, and experimental evidence relating to the 'normal' personality. Supervised case-study. Three hours of discussion each week and individual conferences. Prerequisite: Psychology 101.

302b. *Psychology of the Abnormal Personality*: Mr. Brown.

Concepts of normality, types of abnormality, methods of investigation, and principles of psychotherapy. Three hours of lecture and one clinic-visit each week plus occasional trips to local hospitals for special lectures and demonstrations. Prerequisite: Psychology 302a.

303a. *Learning and Thinking*: Mr. Bitterman.

Verbal learning and retention; motor skills; meaning and creative thought. Three hours of lecture and three hours of laboratory each week. Prerequisites: Psychology 101 and 204a.

304b. *Clinical Evaluation and Measurement*: Mrs. Cox.

The clinical study of the individual with particular reference to intelligence, special aptitudes and personality. Construction and use of leading instruments, with opportunity for observation and testing. Three hours of lecture and two hours of laboratory each week. Prerequisite: Psychology 101.

Comprehensive Survey: Members of the Department.

A weekly seminar for senior majors which provides opportunity for informal discussion of theoretical and methodological problems at an advanced level. Reading lists are prepared for the summer of the Junior year.

FINAL EXAMINATION: The final examination is in three parts:

1. General Psychology.
2. Statistical Analysis and Experimental Design.
3. A specialized examination in one of the following fields:
 Clinical Evaluation and Measurement
 Comparative Psychology
 Learning and Thinking
 Perception
 Personality, Normal and Abnormal
 Social Psychology

An Honors Thesis or (with the approval of the Department) an examination in an allied field may be substituted for Part 3.

HONORS WORK: One unit of Honors work may be taken by students nominated by the Department. This unit may be substituted for Part 3 of the final examination.

Russian

ASSOCIATE PROFESSOR:

FRANCES DE GRAAFF, PH.D.,
Chairman

Appointment to be announced.

PROFESSOR OF ENGLISH:

BETTINA LINN, M.A.

The Russian major is designed to offer the students the opportunity to learn both to read and speak Russian and to achieve an understanding of the literature, thought and culture of pre-revolutionary as well as contemporary Russia.

REQUIREMENTS IN THE MAJOR SUBJECT: Russian 1, 101, 201, and one advanced course. Also Russian 203 or History 206 (History of Russia). If a student offers Russian for entrance, Russian 203 or History 206 may be substituted.

ALLIED SUBJECTS: History 204b, 206 (strongly recommended), 301; Political Science 201a, 210; any language or literature, History of Art, Music, Philosophy.

1. *Elementary Russian*: Miss de Graaff.

The basic grammar is learnt and enough vocabulary to enable the student to speak and understand simple Russian and to read simple texts.

101. *Intermediate Russian*: Miss de Graaff.

Grammar review and composition. Introduction to the Russian literary language. Plays, novels, and some contemporary political material are read.

201. *Readings in Russian Literature*.

Representative writers of the Nineteenth Century. Conducted mostly in Russian.

[202.* *General Readings in Russian*: Miss de Graaff.]

Primarily intended for students who want a good reading knowledge of the language, but are not majoring in Russian. The reading texts cover a wide variety of subject matter, such as history, economics, politics, science, as well as literature. Some lectures in Russian about the cultural background of Russia are included, with oral reports by the students and discussion of specific topics in Russian. Prerequisite: two years of Russian.

[203.* *Russian Literature in Translation*: Miss Linn.]

The leading Russian writers of the Nineteenth Century in translations. Students registering for the course should read in the preceding summer the following novels: Dostoevsky's *Crime and Punishment*, Tolstoi's *War and Peace*, and two of Turgenev's novels.

An advanced course, given in Russian, is selected from the following:

301. *Russian Poetry of the Nineteenth Century*: Miss de Graaff.
 302. *Pushkin and His Time*: Miss de Graaff.
 303. *Russian Literature of the Twentieth Century*: Miss de Graaff.
 304. *Social Trends in Nineteenth Century Russian Literature*: Miss de Graaff.

FINAL EXAMINATION: The final examination for students majoring in Russian consists of three parts:

1. The Russian language: ability to speak and understand the spoken idiom; ability to translate from the Russian.
2. A period of Russian literature.
3. A paper on a single topic of Russian literature or a paper on an allied subject. The Department is especially interested in allied subjects in the social sciences, given as a part of the Three College Program.

HONORS WORK: Honors work is offered to students recommended by the Department.

Sociology and Anthropology

PROFESSOR OF

ANTHROPOLOGY:

FREDERICA DE LAGUNA, PH.D.,
Chairman

ASSOCIATE PROFESSOR

OF SOCIOLOGY:

EUGENE V. SCHNEIDER, PH.D.¹

LECTURER

IN ANTHROPOLOGY:

EDWARD B. HARPER, PH.D.

VISITING LECTURER

IN SOCIOLOGY:

EDWARD TIRYAKIAN, PH.D.

ASSISTANT:

SUE NUTTALL, A.B.

ASSOCIATE PROFESSOR

OF SOCIAL WORK AND
 SOCIAL RESEARCH:

HERTHA KRAUS, PH.D.

The aim of the major is to provide the student with a general understanding of human society and human culture, as these

1. On sabbatical leave for semester II, 1958-1959.

have developed in different parts of the world, from prehistoric to modern times. Man's racial and cultural history is traced, and analyses are made of cultural and social institutions of primitive and complex industrial societies. The advanced work is planned to bring together the major contributions in the fields of social and cultural theory. The free elective courses deal with practical problems of social welfare.

REQUIREMENTS IN THE MAJOR SUBJECT: 101, 201, 203a, 206a or b and 301.

ALLIED SUBJECTS: Classical Archaeology, Economics, Geography, History, Philosophy, Political Science, Psychology, and Statistics.

101. *Man, Culture and Society*: Miss de Laguna.

First Semester: Man's place in nature, the origin and spread of human races, the development of culture from prehistoric to modern times.

Second semester: Basic cultural and social institutions in primitive and complex societies.

No credit is given unless the work of the whole year is completed.

201. *Social Institutions*: Mr. Schneider.

Analysis of some major features of the social structure and culture of modern, large-scale societies, with special attention to the United States. Prerequisite: 101.

202a.* *Principles of Social Welfare*: Miss Kraus.

Study of the principal social problems in modern industrial society and the means adopted for their solution by public and private agencies.

202b.* *Child Welfare*: Miss Kraus.

Basic problems and methods of providing social and health services for children.

203a. *Primitive Culture*: Mr. Harper.

Analysis of significant studies of culture in selected areas in terms of the methods and aims of ethnography. Prerequisite: 101.

[204. *American Archaeology*: Miss de Laguna.]

[205b. *Primitive Society*: Mr. Harper.]

Social structures of preliterate peoples; the functions they perform and the types of sanctions which control their members. Prerequisite: 101.

206a. *Social Change*: Mr. Schneider.

Basic dynamic processes underlying social change in the modern world; considerations of mass movements, nationalism, revolution, as well as of more gradual change. Prerequisite: 101.

206b. *Social Disorganization*: Instructor to be announced.

Analysis of selected areas of disorganization in American society. Prerequisites: 101 and 201a.

207b. *Village India*: Mr. Harper.

Prerequisite: 101.

301. *Social and Cultural Theory*: Miss de Laguna, Mr. Tiryakian.

Analysis of the important classic and modern contributions to sociological and ethnological theory. Prerequisites: 101, 201a and 203a.

FINAL EXAMINATION: The final examination for students majoring in Sociology and Anthropology is in three parts:

1. Cultural Anthropology
2. Sociology
3. (a) A special field in either Anthropology or Sociology; or
(b) an allied field.

HONORS WORK: Honors work is offered to students recommended by the Department, and will consist of independent reading and research, conferences, and the preparation of a written report.

Spanish

DEAN OF THE COLLEGE: DOROTHY NEPPER MARSHALL, PH.D.,
Acting Chairman

LECTURERS: JOAQUÍN GONZÁLEZ-MUELA, PH.D.
WILLARD FAHRENKAMP KING, PH.D.

VISITING LECTURERS: VICENTE LLORENS, *Lic.F.L.*
EUGENIO FLORIT, *D. en D.*

INSTRUCTOR: HOPE KAUFMANN GOODALE, M.A.

PROFESSOR OF PHILOSOPHY: JOSÉ MARÍA FERRATER MORA,
Licenciado en Filosofía

The major in Spanish includes work in both literature and language. It includes a two-year survey of Spanish literature, fol-

lowed by more specialized advanced courses dealing with the literature of special periods, or with various literary forms. One course is devoted to training in written and spoken Spanish. Students are encouraged to supplement their course work by spending the Junior year in Spain or a summer in a Spanish speaking country, or by living in the Spanish House.

REQUIREMENTS IN THE MAJOR SUBJECT: Spanish 101, 203a and b, 202a and two advanced courses. Students who spend the Junior year in Spain may substitute an advanced literature course for Spanish 202a.

ALLIED SUBJECTS: Any other language or literature, Economics, History, History of Art, Music, Philosophy, Political Science, and Sociology and Anthropology.

1. *Elementary Spanish*: Mrs. Goodale, Mrs. King.

Grammar, composition, readings on the Spanish and Spanish-American background.

3. *Intermediate Spanish*: Mrs. Goodale.

Intensive grammar review and exercises in composition and conversation.

101. *Spanish Literature*: Mr. González-Muela.

From its origins to the present day. Emphasis is given to the study of complete texts supplemented by short papers and written exercises.

- 202a. *Spanish Composition*: Mr. González-Muela.

[203a. *Introduction to Latin-American History*.]

Conducted in English. A general view of the cultural history of Latin America. Students majoring in Spanish, or with a sufficient knowledge of the language, will work with original texts.

[203b. *The Latin-American Novel and Essay*.]

A study of the main Latin-American essayists and novelists of the Nineteenth and Twentieth centuries.

[302b. *The Spanish Lyric*.]

Lyric poetry in the Hispanic countries from the beginnings to the present day. Collateral readings and reports.

303. *The Spanish Novel of the Nineteenth and Twentieth Centuries*: Mrs. Marshall, Mrs. King.

- 304a. *Spanish Drama of the Golden Age*: Mrs. King.
304b. *The Age of Cervantes*: Mr. González-Muela.
[305a. *Spanish Literature of the Eighteenth Century*: Mr. Ferrater Mora.]
[305b. *Spanish Literature of the Middle Ages*.]
[306a. *Spanish Prose of the Golden Age*.]
[307. *Spanish Thought and Essay of the Nineteenth and Twentieth Centuries*.]

FINAL EXAMINATION: The final examination is in three parts:

1. An oral examination consisting of the explanation and interpretation of a Spanish text in Spanish.
2. A three-hour written examination in Spanish on a period of Spanish literature.
3. A three-hour written examination on the development of a literary genre through Spanish literature.

An examination in an allied subject may be substituted for one of the two written examinations.

HONORS WORK: Honors work is offered to students recommended by the Department. This work consists of independent reading, conferences, and a long paper.

Interdepartmental Courses

The following courses are given by several Departments in cooperation. The object is to cut across well-defined areas of knowledge and to show the relationships existing among them.

[202. *Aspects of Eighteenth Century Life and Thought*: Miss Robbins, Miss Northrop, Miss Stapleton.]

[203. *The Development of Scientific Thought*: Miss Wyckoff, and other Members of the Faculty.]

The development of scientific ideas is traced against the historical background of other intellectual activities, social changes, and technological inventions. Important scientific concepts and theories are analyzed, and the basic assumptions of scientists of the past are compared with those of the present day. The course is open to students who have had one year of laboratory science in college, and should be of special interest to those majoring in History, Philosophy, Mathematics, or Science.

210. *The Soviet System*: Mr. Hunter, Haverford College.

An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current arrangements are studied as products of historical development. Present performance and prospects are evaluated. Prerequisites: Economics 101 or Political Science 101a and 102b or History 101. (This course is also listed as Political Science 210.)

301. *The Theory and Practice of Democracy*: Mr. Wells, Miss Stapleton, Miss Stearns, Mr. Hubbard.

The fundamental concepts of democracy and their expression in governmental institutions; their relationship to contemporary political problems. Open to students who have taken one year of History, Economics, Political Science or Philosophy and to other students with the permission of the instructors. (This course is also listed as Political Science 301.)

Physical Education

DIRECTOR:	IRENE A. CLAYTON, M.S.
INSTRUCTORS:	ETHEL M. GRANT GLORIA SCHMIDT, M.A. JANET YEAGER

Through the offerings in the Physical Education Department, students are given opportunities to participate in varied fields of both individual and team sports, dance, and aquatic activities. Class instruction during the first two years enables the student to learn new skills or to improve her techniques. Inter-class, Interhall and Varsity schedules of games and tournaments offer all students the experience of competition in sports. Creative interest in modern dance is encouraged through class work and extra-curricular programs. The Department cooperates with the Athletic Association in sponsoring Square Dance nights, and in promoting the activities of the Dance Club, the Synchronized Swimming Club, and the Outing Club.

The freshman requirement in Physical Education consists of three periods a week throughout the year; part of the winter term will be given over to the study of fundamental principles of good movement. The sophomore requirement consists of two periods a week throughout the year. All students must complete the freshman and sophomore requirements satisfactorily, and must pass the swimming test administered at the beginning of the year to every new student who is not excused by the College Physician. Students unable to pass this test are expected to register for beginning swimming. All classes are open to election by upperclassmen. Students transferring from other colleges will have their physical education requirement reviewed by the Director of the Department.

Seasonal offerings from which election may be made are:

FALL: archery, beginning swimming, fencing, golf, hockey, modern dance, riding,* tennis and American Red Cross Senior Life Saving course. WINTER: badminton, basketball, fencing, beginning golf, folk dance, modern dance, skating,* swimming, volleyball, and American Red Cross Instructor course. SPRING: archery, golf, lacrosse, riding,* softball, swimming and tennis. SWIMMING TEST: one standing dive, back float 2 minutes, tread water one minute, bobbing twice, and swimming any stroke 20 minutes.

* Open only to Sophomores with permission of the Department.

Academic Awards

THE scholarships listed on the following pages have been made available to able and deserving students through the generosity of alumnae and friends of the College. Many of them represent the income on endowed funds which in some cases is supplemented by an additional grant, usually taken from expendable gifts from alumnae and parents. The awards made from some scholarship endowments are reported in specific amounts. In the case of other awards where the specific amount is not reported, the stipend is variable according to the needs of the student.

Three outstanding national scholarship programs have recently been established by the General Motors Corporation, the National Merit Scholarship Corporation and the Procter and Gamble Company. The Ford Company has a scholarship program for the children of its employees as do other large companies. In addition to the generous awards made by these companies there are many others made by foundations and by industrial and professional groups. Some of these are regional in designation. Students are urged to consult their schools and community agencies for information in regard to such opportunities.

Scholarship aid is held each year by twenty-six to twenty-eight per cent of undergraduate students. The value of the scholarships ranges widely, but the average grant is approximately \$850. The Scholarship Committee judges requests for aid on the basis of academic promise and achievement on the one hand, and financial need on the other. Committee decisions take into account letters of recommendation from members of the Faculty and the financial situation of the student as it is presented in application blanks which have been completed by the candidate and her family.

Scholarships are available both to entering students and to those who have completed one or more years of study in the College. Students entering on transfer from other colleges are eligible for scholarships only after the completion of one year of study at Bryn Mawr.

APPLICATIONS FOR SCHOLARSHIPS
TO BE HELD AT ENTRANCE

Application forms for entrance scholarships may be obtained from the Director of Admissions, Taylor Hall, Bryn Mawr College, Bryn Mawr, Pennsylvania. *Applications should be filed by January 31st of the student's senior year in high school.* The form entitled *Parents' Confidential Statements in Support of Applications for Financial Aid* should be returned to the College Scholarship Service, Box 176, Princeton, New Jersey.

Bryn Mawr is participating in the College Scholarship Service of the College Entrance Examination Board. The colleges using the Service join in the belief that scholarships should be awarded to properly qualified students after careful consideration of the financial need of the students and their families. The College Scholarship Service acts as a clearing house for applications, sending to the College the report from parents or guardians. The College itself selects the award winners and decides upon the terms of the awards.

Scholarship applicants who register under the Early Decision Plan will be responsible for obtaining and filing by *October 1st* of the senior year both the Bryn Mawr scholarship application and the Parents' Confidential Statement of the College Scholarship Service. Scholarship winners in this group will be notified of awards by December 15th.

UNDERGRADUATE SCHOLARSHIPS

The renewal like the award of scholarships depends on the student's maintaining a good record. Application for the renewal of scholarships must be made annually. The necessary forms may be obtained in the Office of the Dean. Completed forms must be returned to the Dean of the College by March 15th.

The dates in parentheses in the listings on the following pages indicate the year the scholarship was established.

Scholarships

SCHOLARSHIPS AWARDED AT ENTRANCE AND TENABLE FOR FOUR YEARS

Bryn Mawr Alumnae Regional Scholarships are available to students in all parts of the United States. These scholarships, raised by alumnae, vary in amount but generally cover full tuition. A list of the regional districts and of the Alumnae District Councillors will be found on page 129. The awards are made by local alumnae committees and are announced to the candidates immediately after their notification of admission to the College. Holders of these scholarships who maintain a high standard of academic work and conduct, and who continue to need financial aid after the freshman year, are assured of assistance either from alumnae committees in their districts or from the College. (1922)

The Florence and Dorothy Child Memorial Scholarship of Bryn Mawr College was founded in 1957 by bequest of Florence C. Child of the Class of 1905. The income from this fund of \$128,009 is to be used for the residence fees of one or more students who without such assistance would be unable to live in the halls. Preference is to be given to graduates of the Agnes Irwin School and to members of the Society of Friends. If no suitable applicants are available in these two groups, the scholarship aid will then be assigned by and at the discretion of the proper authorities of Bryn Mawr College to students who could not live in residence without such assistance and who are not holding other scholarships.

The Charles E. Ellis Scholarship, value \$700, tenable for four years, was founded by bequest of the late Charles E. Ellis. It is awarded on the recommendation of the Superintendent of Public Schools of the City of Philadelphia, subject to the approval of the Board of Directors of Bryn Mawr College, to a student educated in the Philadelphia Public Schools. (1909)

The Foundation Scholarships, varying in amount up to full tuition and tenable for four years, are made available by the Trustees of Bryn Mawr College. They may be awarded annually upon conditions, so far as possible, similar to the Trustees' Schol-

arships (see page 111), to members of the Society of Friends who cannot meet the full expenses of tuition and residence. (1894)

The Priscilla Hunt Scholarship was given in memory of Priscilla Hunt of the Class of 1950 by her mother and father, Ruth Van Natta Hunt and Leigh L. Hunt. The scholarship, first awarded in 1955-1956 in the amount of \$1,000 and tenable for four years, will be awarded every four years to a candidate from certain counties in the state of Indiana. (1955)

The Lillia Babbitt Hyde Foundation Scholarship in Science, value up to \$1,000, is awarded to an entering student on the basis of school and test records and an essay competition in science. The amount of the scholarship varies in accordance with the need of the applicant. These scholarships are made possible by grants from the Lillia Babbitt Hyde Foundation to encourage women to enter science and pre-medical studies. (1948)

The Minnie Murdoch Kendrick Memorial Scholarship, tenable for four years, was founded by bequest of \$5,000 under the will of George W. Kendrick, Jr., in memory of his wife. It is awarded every four years to a candidate nominated by the Board of Public Education of Philadelphia. (1916)

The Gertrude Howard McCormick Scholarship Fund was established by gift of \$25,000 by the late Gertrude Howard McCormick. The scholarship, value \$1,000, is awarded to a student of excellent standing, preferably for her freshman year. If she maintains excellent work in college, she may continue to receive scholarship aid through her sophomore, junior and senior years. (1950)

The Philadelphia Board of Public Education Scholarships are awarded to graduates of Philadelphia high schools nominated by the Board of Public Education of Philadelphia. (1898)

The Procter and Gamble Scholarship, awarded every year, carries free tuition and an allowance for books and supplies and is tenable for four years. This scholarship program was established by the Procter and Gamble Company "in recognition of the responsibility assumed by private women's colleges in graduating capable, well-informed women." The award is made by Bryn Mawr College. (1955)

The Lidie C. B. Saul Scholarship, tenable for four years, is given by the Alumnae Association of the Girls' High School and Normal School of Philadelphia. It is awarded every four years to the graduate of the Girls' High School who enters Bryn Mawr College with the highest grade of that year. (1895)

Seven College Conference Scholarships are awarded annually by the Seven College Conference (Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar and Wellesley). One scholarship, varying in amount up to full expenses for tuition and residence, is given annually by each of the colleges in each of three areas: the *far west* (Washington, Oregon, California and Idaho) the *central states* (Kansas, Missouri, Nebraska and Colorado) and the *southwest* (Arizona, Louisiana, New Mexico, Oklahoma, Texas and Arkansas). One of these scholarships is supported at Bryn Mawr by a grant made by the *George F. Baker Trust*. (1950). The others are supported by income from the *Fanny R. S. Peabody Fund* of \$177,927. (1943)

The Frances Marion Simpson Scholarships, carrying free tuition and tenable for four years, were founded in memory of Frances Simpson Pfahler of the Class of 1906 by Justice Alexander Simpson, Jr., by gifts amounting to \$20,000. One scholarship is awarded each year to a member of the entering freshman class who cannot meet in full the fees of the College. In awarding these scholarships first preference is given to residents of Philadelphia and Montgomery Counties who have been prepared in the public schools of these counties or at home by parents or guardians, thereafter, under the same conditions, to residents of other counties of Pennsylvania, and, in special cases, to candidates from other localities. Holders of these scholarships are expected to repay the sums advanced to them. If they become able during their college course to pay the tuition fees in whole or in part, they are required to do so. (1912)

The Trustees' Scholarships, varying in amount up to full tuition, and tenable for four years, are made available by the Trustees of Bryn Mawr College for students prepared in the high schools of Philadelphia and its suburbs. Two of these scholarships are awarded annually to candidates who have received all their preparation for entrance in Philadelphia high schools and are recommended by the Board of Public Education

of Philadelphia; two are awarded annually to candidates who have received all their preparation for entrance in public schools in the suburbs of Philadelphia and are awarded by the College after consultation with the principals of the schools presenting candidates. The amount of the award varies according to the need of the applicant. (1895)

For other four-year scholarships, not in the award of Bryn Mawr College, students should see page 107.

FOR FOREIGN STUDENTS

The Chinese Scholarship, awarded every four years and tenable for four years, comes in part from the annual income of a fund now totalling \$30,027 established by a group of alumnae and friends of the College in order to meet all or part of the expenses of a Chinese student during her four undergraduate years at Bryn Mawr College. (1917)

The Marguerite N. Farley Scholarships for foreign students were established in 1956 by bequest of Marguerite N. Farley. The income from a fund of \$329,355 will be used for scholarship for foreign students covering part or all of their expenses for tuition and residence.

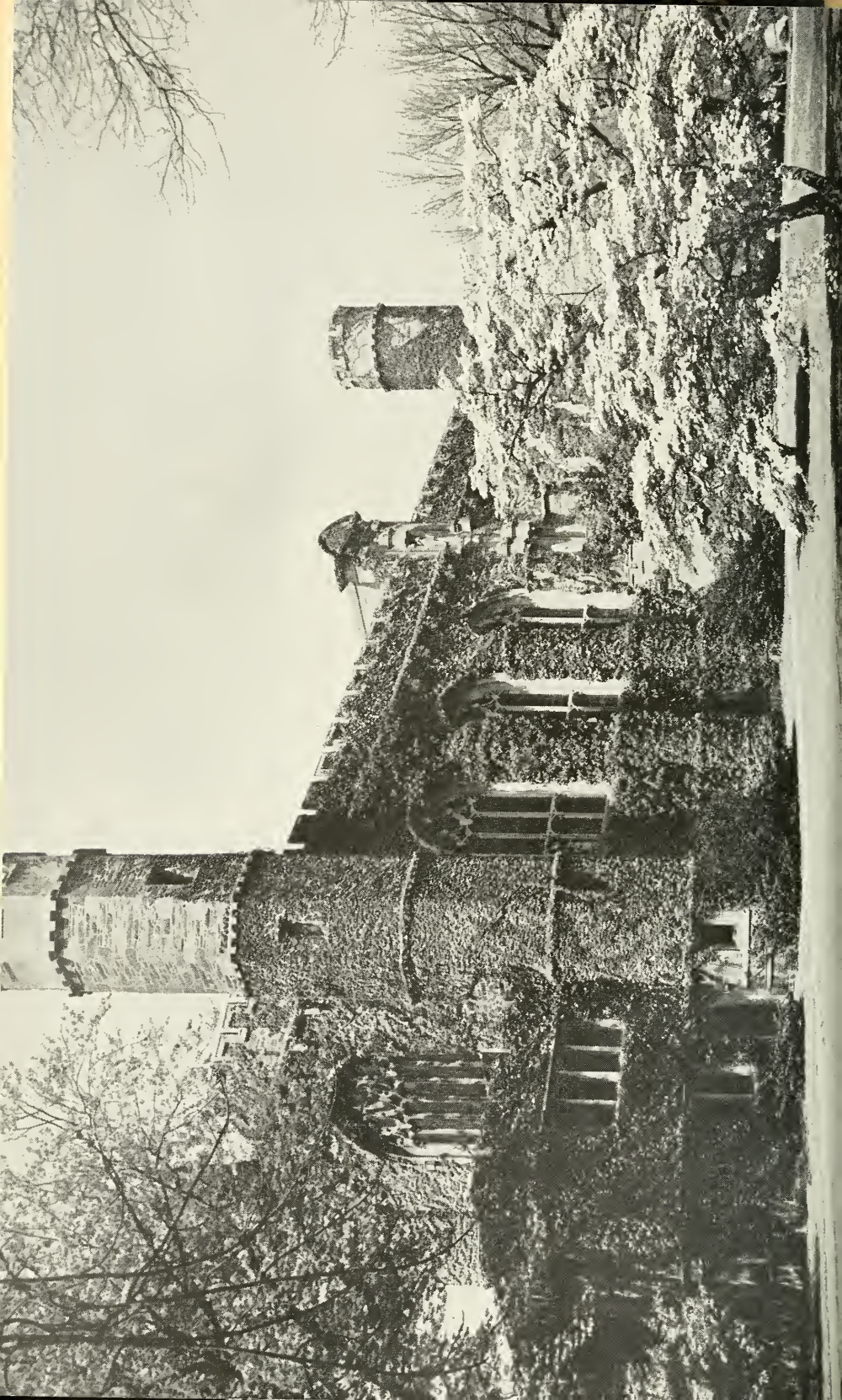
The Special Trustees' Scholarship is awarded every four years to a foreign student. It carries free tuition and is tenable for four years. These scholarships for students from foreign countries were offered by the Trustees in 1940.

The Undergraduate Scholarship, raised and awarded by the Undergraduate Association in consultation with the President and the Director of Admissions, is awarded every four years to a foreign student entering Bryn Mawr. The award is variable in amount but covers as a minimum the cost of tuition.

SCHOLARSHIPS AWARDED AT ENTRANCE AND TENABLE FOR THE FRESHMAN YEAR ONLY

The Bryn Mawr School Scholarship, instituted by the Board of Managers of the Bryn Mawr School of Baltimore, Maryland, has been offered annually since the College opened in 1885 to the graduate of the Bryn Mawr School who has completed the school





course with the greatest distinction and who plans to enter Bryn Mawr College.

The Alice Day Jackson Scholarship Fund of \$10,000 was given by the late Percy Jackson in memory of his wife, Alice Day Jackson. (1930)

The Clara Bertram Little Memorial Scholarship was founded by Eleanor Little Aldrich, in memory of her mother. The income from a fund now totalling \$10,000 is awarded to a student from New England selected by the President on the basis of merit and financial need. (1947)

The Louise Hyman Pollak Scholarship was founded by the Board of Trustees from a bequest of \$5,061 by Louise Hyman Pollak of the Class of 1898. The income from this fund now totalling \$6,666, supplemented by gifts from Julian A. Pollak, is awarded annually to a student from one of the central states, east of the Mississippi River. Preference is given to residents of Cincinnati. (1932)

The Amy Sussman Steinhart Scholarship, carrying full tuition, was founded in memory of Amy Sussman Steinhart of the Class of 1902 by her family and friends. The income from gifts now totalling \$11,383 is awarded annually to a student from one of the states on the west coast. (1932)

The Evelyn and Caroline Warram—Bryn Mawr Scholarship, carrying free tuition, was given in 1956 by Mr. and Mrs. James H. Warram. It is to be awarded each year to an entering student from the State of Oklahoma.

SCHOLARSHIPS AWARDED AT THE END OF THE FRESHMAN YEAR AND TENABLE FOR THE THREE SUBSEQUENT YEARS

The Jeannette Peabody Cannon Memorial Scholarship Fund, now totalling \$7,405, was established in memory of Jeannette Peabody Cannon, Class of 1919, through the efforts of the New England Alumnae Regional Scholarship Committee, of which she was a member for twenty years. The scholarship is awarded every three years at the termination of the freshman year on the nomination of the Alumnae Scholarship Committee to a promising member of the freshman class residing in New England who needs financial assistance. The scholarship may be held during

the remaining three years of her college course provided a high standard is maintained. (1949)

The Leila Houghteling Memorial Scholarship Fund in the amount of \$10,000 was founded in memory of Leila Houghteling of the Class of 1911 by members of her family and a group of her contemporaries. It is awarded every three years on the nomination of the Alumnae Scholarships and Loan Fund Committee to a member of the freshman class in need of financial assistance and is held during the remaining three years of her college course. (1929)

SCHOLARSHIPS AWARDED AT THE END OF THE
FRESHMAN YEAR AND TENABLE FOR THE
SOPHOMORE YEAR ONLY

The Maria Hopper Scholarships, two in number, were founded by bequest of \$10,000 under the will of Maria Hopper of Philadelphia and are awarded annually. (1901)

The James E. Rhoads Memorial Sophomore Scholarship was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958, the Alumnae Association increased the fund to \$25,000, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least one semester, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

SCHOLARSHIPS AWARDED AT THE END OF THE
SOPHOMORE YEAR AND TENABLE FOR THE
TWO SUBSEQUENT YEARS

The Jeanne Crawford Hislop Memorial Scholarship Fund of \$5,000 was given in memory of Jeanne Crawford Hislop of the Class of 1940 by Mr. and Mrs. John H. Hislop and Mrs. Frederic W. Crawford. This scholarship may be renewed for the senior year. (1939)

The Serena Hand Savage Memorial Scholarship was established in memory of Serena Hand Savage of the Class of 1922 by her friends. The income from a fund of \$21,729 is awarded to a

member of the junior class who shows great distinction of scholarship and character and who needs financial assistance. This scholarship may be renewed in the senior year. (1951)

SCHOLARSHIPS AWARDED AT THE END OF THE
SOPHOMORE YEAR AND TENABLE FOR THE
JUNIOR YEAR ONLY

The Anna Hallowell Memorial Scholarship was founded in memory of Anna Hallowell by her family. The income on a fund of \$2,585 is awarded annually to the student in need of aid who has the highest academic record. (1912)

The James E. Rhoads Memorial Junior Scholarship was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958, the Alumnae Association increased the fund to \$25,000, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least three semesters, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

The Mary E. Stevens Scholarship Fund was given in memory of Mary E. Stevens by former pupils of The Stevens School in Germantown. The income on this fund of \$3,188 is awarded annually. (1897)

SCHOLARSHIPS AWARDED AT THE END OF THE
JUNIOR YEAR AND TENABLE FOR THE
SENIOR YEAR ONLY

The Anna M. Powers Memorial Scholarship was founded in memory of Anna M. Powers by a gift of \$5,000 from her daughter, the late Mrs. J. Campbell Harris. (1902)

The Thomas H. Powers Memorial Scholarship was founded in memory of Thomas H. Powers by bequest under the will of his daughter, the late Mrs. J. Campbell Harris. (1902)

SCHOLARSHIPS TENABLE IN ANY YEAR
AFTER THE FRESHMAN YEAR

The Book Shop Scholarships are awarded annually from the profits of the Bryn Mawr College Book Shop and from the

income from the Book Shop Fund which now amounts to \$15,555. (1947)

The Jacob Fussell Byrnes and Mary Byrnes Fund was founded in memory of her father and mother, by a bequest of \$51,513 under the will of Esther Fussell Byrnes of the Class of 1891. By vote of the Board of Directors the income is used for annual scholarships for students in need of financial aid. (1948)

The Susan Shober Carey Award was founded in memory of Susan Shober Carey by a gift totalling \$3,200 from the Class of 1925 and is awarded annually by the President. (1931)

The Jacob Orie and Elizabeth S. M. Clarke Memorial Scholarship was established by bequest of \$5,000 from the estate of Elizabeth Clarke and is awarded annually to a student born in the United States or any of its territories. (1948)

The Class of 1903 Scholarship Fund was established by gift of \$12,295 on the occasion of the fiftieth reunion of the Class. The income from this fund is to be awarded annually to a member of the freshman, sophomore or junior class for use in the sophomore, junior or senior years. (1953)

The Class of 1920 Memorial Scholarship Fund was founded in memory of classmates by the Class of 1920 from reunion gifts totalling \$2,145. The income from the Fund is to be awarded annually. (1955)

The Alice Perkins Coville Scholarship Fund, now totalling \$5,000, was established by Agnes Frances Perkins of the Class of 1898 in honor of her sister, Alice Perkins Coville. The income from this scholarship fund is used to aid a deserving student in need of financial assistance. (1948)

The Regina Katharine Crandall Scholarship was established by a group of her students as a tribute to Regina Katharine Crandall, Margaret Kingsland Haskell Professor of English Composition from 1918 to 1933. The income from this fund, which now amounts to \$10,225, is awarded on the recommendation of a committee composed of the Dean of the College, a representative of the English Department, and a representative of another department chosen by the Dean, to a sophomore, junior or senior who in her written English has shown ability

and promise and who needs assistance to continue her college work. (1950)

The E. Merrick Dodd and Winifred H. Dodd Scholarship Fund of \$2,000 was established by bequest of Dr. and Mrs. Dodd. (1953)

The Abby Slade Brayton Durfee Scholarship Fund, which now amounts to \$9,250 was founded in honor of his wife by bequest of Randall Nelson Durfee and increased by Mrs. Durfee and by Randall N. Durfee, Jr. and Mrs. Charles B. Brown of the Class of 1930. Preference in awarding it is given to candidates of English or American descent and to descendants of the Class of 1894. (1924)

The William Franklin Scholarship Fund was established in 1957 by a bequest of \$27,511 from the Estate of Susan B. Franklin of the Class of 1889. The income from this fund is to be used for scholarships for deserving girls, preference being given whenever possible to girls from the Rogers High School, Newport, Rhode Island.

The Katharine Hepburn Scholarship, value \$1,000, given for the year 1958-1959, is awarded in honor of Katharine Hepburn to a student interested in the study of drama and motion picture, and to the cultivation of English diction and of literary appreciation. (1952)

The Katharine Houghton Hepburn Scholarship given in memory of Katharine Houghton Hepburn of the Class of 1900 will be awarded for her junior or senior year to a student who has demonstrated both ability in her chosen field and independence of mind and spirit. (1957)

The George Bates Hopkins Memorial Scholarships were founded in memory of her father by a gift of \$10,000 from Mrs. Elizabeth Hopkins Johnson. Preference is given to students of music and, in default of these, to students majoring in history, and thereafter to students in other departments. (1921)

The Evelyn Hunt Scholarships, two in number, were founded in memory of Evelyn Hunt by bequest of \$10,000 under the will of Evelyn Ramsey Hunt of the Class of 1898. (1931)

The Lillia Babbitt Hyde Foundation Scholarships in Science and Pre-Medical Studies are awarded to students who have demonstrated ability in biology, chemistry or physics and who are in need of financial aid. These scholarships are made possible by grants from the Lillia Babbitt Hyde Foundation to encourage women to enter science and pre-medical studies. (1948)

The Misses Kirk Scholarship Fund, now amounting to \$1,375, was founded in honor of the Misses Kirk by the Alumnae Association of the Kirk School in Bryn Mawr. (1929)

The Constance Lewis and Martha Rockwell Moorhouse 1904 Memorial Scholarship Fund now amounting to \$17,930 was established by the Class of 1904 in memory of Constance Lewis and Martha Rockwell Moorhouse of the Class of 1904. (1920).

The Mary Anna Longstreth Memorial Scholarship, established by a gift of \$5,000 and carrying free tuition, was given in memory of Mary Anna Longstreth by alumnae and children of alumnae of the Mary Anna Longstreth School and by a few of her friends. (1913)

The Lorenz-Showers Scholarship Fund of \$3,000 was established by Justina Lorenz Showers of Dayton, Ohio, of the Class of 1907, in honor of her parents, Edmund S. Lorenz and Florence K. Lorenz, and of her husband, John Balmer Showers. (1943)

The Jean Brunn Mungall 1944 Memorial Fund was established by the Class of 1944 at its 1955 reunion. The income is to be used for scholarships.

The Mary McLean and Ellen A. Murter Memorial Fund, now amounting to \$14,320, was founded in memory of her two aunts by bequest of Mary E. Stevens of Germantown, Philadelphia. By vote of the Board of Directors the income is used for an annual scholarship. (1933)

The Frank L. Neall and Mina W. Neall Scholarship Fund was established in 1957 by a legacy of \$25,000 from the Estate of Adelaide W. Neall of the Class of 1906 in memory of her parents. The income is to be used for scholarship purposes at the discretion of the Trustees of the College.

The Florence Morse Palmer Scholarship was founded in memory of Florence Morse Palmer by her daughter, Jean T.

Palmer, of the Class of 1924, by gifts now totalling \$7,108. (1954)

The Anna Powers Memorial Scholarship was established by a gift of \$1,000 in memory of Anna Powers of the Class of 1890 by her sister, Mrs. Charles Merrill Hough. In 1958 this fund was increased to \$1,200 by Nancy Hough Smith of the Class of 1925. (1919)

The Amelia Richards Scholarship was founded in memory of Amelia Richards of the Class of 1918 by bequest of \$10,000 under the will of her mother, Mrs. Frank P. Wilson. It is awarded annually by the Trustees on the nomination of the President. (1921)

The Mary Williams Sherman Memorial Scholarship Fund, now amounting to \$4,152, was established by bequest of Bertha Williams of Princeton, New Jersey. (1942)

The Shippen Huidekoper Scholarship Fund of \$5,000 was established by an anonymous gift. The income is awarded annually on the nomination of the President. (1936)

The Anna Margaret Sloan and Mary Sloan Scholarships were founded by bequest of Mary Sloan of Pittsburgh. The income from this fund of \$16,858 is awarded annually to students majoring in philosophy or psychology. (1942)

The Cordelia Clark Sowden Scholarship Fund was established in 1957 by a bequest of \$15,000 from the Estate of Helen C. Sowden. The income from this fund is used for scholarships to be awarded by Bryn Mawr College under the rules in effect at the time of the award.

The Summerfield Foundation Scholarship was established in 1958 by a gift of \$1,000 from the Solon E. Summerfield Foundation. The income is to be used to assist able students who need financial help to continue their studies.

The Mary Hamilton Swindler Scholarship was established in honor of Mary Hamilton Swindler, Professor of Classical Archaeology from 1931 to 1949, by a group of friends and former students, by gifts totalling \$6,630. The income from this fund is

used for a scholarship for the study of Archaeology at Bryn Mawr College. (1950)

The Elizabeth Wilson White Memorial Scholarship was founded in memory of Elizabeth Wilson White by a gift of \$7,500 by Thomas Raeburn White. It is awarded annually by the President. (1923)

The Mary R. G. Williams Scholarship Fund was established in 1957 from the Fund for Promoting College Education for Women established by bequest of Mary R. G. Williams. The income from this fund will be used for emergency grants for students who are paying their own way through College.

The Mary Peabody Williamson Scholarship was founded by bequest of \$1,000 by Mary Peabody Williamson of the Class of 1903. (1939)

The Lila M. Wright Memorial Scholarship was founded in memory of Lila M. Wright by gifts totalling \$2,987 from the alumnae of Miss Wright's School of Bryn Mawr. (1934)

The Georgie W. Yeatman Scholarship was founded by bequest of \$1,000 under the will of Georgie W. Yeatman of Philadelphia. (1941)

Prizes

The following scholarships and prizes are in the award of the Faculty and are given solely on the basis of academic merit.

The Bryn Mawr European Fellowship, value \$1,000, has been awarded each year since the first class was graduated in 1889. It is given for merit to a member of the graduating class, to be applied toward the expenses of one year's study at some foreign university. The holder of this fellowship receives in addition an *Elizabeth S. Shippen Scholarship for Foreign Study*.

The Maria L. Eastman Brooke Hall Memorial Scholarship was founded in memory of Maria L. Eastman, Principal of Brooke Hall School for Girls, Media, Pennsylvania, by gifts totalling \$3,000 from the alumnae and former pupils of the school. It is awarded annually to the member of the junior class with the highest general average and is held during the senior year. Transfer students who enter Bryn Mawr as members of the junior class are not eligible for this award. (1901)

The Charles S. Hinchman Memorial Scholarship was founded in memory of the late Charles S. Hinchman of Philadelphia by a gift of \$12,000 made by his family. It is awarded annually to a member of the junior class for work of special excellence in her major subject and is held during the senior year. (1917)

The Sheelah Kilroy Memorial Scholarships in English were founded in memory of their daughter Sheelah, by Dr. and Mrs. Philip Kilroy by a gift of \$5,000. These scholarships are awarded annually on the recommendation of the Department of English as follows: to a student for excellence of work in second-year or advanced courses in English, and to the student in the first-year course in English Composition who writes the best essay during the year. (1919)

The Elizabeth S. Shippen Scholarships were founded by two bequests of \$5,000 each under the will of Elizabeth S. Shippen of Philadelphia. Three scholarships are awarded annually, one to the member of the senior class who receives the Bryn Mawr European Fellowship, and two to members of the junior class, as follows: 1. *The Shippen Scholarship in Science*, to a student whose major subject is biology, chemistry, geology or physics;

2. *The Shippen Scholarship in Foreign Languages*, to one whose major subject is French, German, Greek, Italian, Latin, Russian or Spanish. To be eligible for either of these two scholarships a student must have completed at least one semester of the second-year course in her major subject. Neither may be held by the winner of the Charles S. Hinchman Memorial Scholarship. Work in elementary courses will not be considered in awarding the scholarship in foreign languages; 3. *The Shippen Scholarship for Foreign Study* (See European Fellowship, page 121). (1915)

The Elizabeth Duane Gillespie Fund for Scholarship in American history was founded by a gift of \$1,500 from the National Society of Colonial Dames of America in the Commonwealth of Pennsylvania in memory of Elizabeth Duane Gillespie. Two prizes are awarded annually on nomination by the Department of History, one to a member of the sophomore or junior class for work of distinction in American History, a second to a student doing advanced work in American History for an essay written in connection with that work. The income from this Fund has been supplemented since 1955 by an annual gift from the Pennsylvania Society of the Colonial Dames. (1903)

The Helen Taft Manning Essay Prize in History was established in honor of Helen Taft Manning, in the year of her retirement, by her class—1915. The income on a fund of \$2,600 is to be awarded as the Department of History may determine. (1957)

The Academy of American Poets Poetry Prize of \$100 will be awarded each year for five years to the student who submits to the Department of English the best poem or group of poems. The Award, first given in 1957, was given by the Academy of American Poets.

The Bain-Swiggett Poetry Prize was established in 1958 by a gift of \$1,000 from Mr. and Mrs. Glen Levin Swiggett. This prize is to be awarded annually by a committee of the faculty on the basis of work submitted for the award. The income only is to be used.

The Hester Ann Corner Prize for distinction in literature was established in memory of Hester Ann Corner, of the Class of 1942, by gifts totalling \$2,125 from her classmates and friends. The award is made every second year to a junior or senior on the recommendation of a committee composed of the chairmen of the departments of English and of classical and modern foreign languages. Awarded in 1957. (1950)

The Katherine Fullerton Gerould Memorial Prize was founded by a gift of \$1,300 from a group of alumnae, many of whom were students of Mrs. Gerould when she taught at Bryn Mawr from 1901-1910. It is awarded by a special committee to a student who shows evidence of creative ability in the fields of informal essay, short story, longer narrative or verse. (1946)

The Theresa Helburn Playwriting Awards, open to all students of the College, are given by Theresa Helburn to encourage playwriting. Original work is required; adaptations, translations and collaborations are not eligible.

The M. Carey Thomas Essay Prize is awarded annually to a member of the senior class for distinction in writing. The award is made by the Department of English for either creative or critical writing. It was established in memory of Miss Thomas by her niece, Millicent Carey McIntosh of the Class of 1920. (1943)

The Jeanne Quistgaard Memorial Prize was given by the Class of 1938 in memory of their classmate, Jeanne Quistgaard. The income on this fund of \$498 may be awarded every two years to a student in Economics. Awarded in 1956. (1938)

The Esther Walker Award was founded by the bequest of \$1,000 from William John Walker in memory of his sister, Esther Walker, of the Class of 1910. It may be given annually to a member of the senior class who in the judgment of the Faculty shall have displayed the greatest proficiency in the study of living conditions of Northern Negroes. (1940)

Scholarships for Medical Study

The following scholarships may be awarded to seniors intending to study medicine, after their acceptance by a medical school, or to graduates of Bryn Mawr intending or continuing to pursue medical education. Applications for the scholarships should be made to the Dean of the College before April 15th preceding the academic year in which the scholarship is to be held. Applications for renewal of scholarships must be accompanied by letters of recommendation from instructors in the medical school.

The Linda B. Lange Fund was founded by bequest of \$30,000 under the will of Linda B. Lange, of the Class of 1903. The income from this fund will provide the Anna Howard Shaw Scholarship in Medicine and Public Health, awarded on recommendation of the President and Faculty to a member of the graduating class or a graduate of the College for the pursuit, during an uninterrupted succession of years, of studies leading to the degrees of M.D. and Doctor of Public Health. The award may be continued until the degrees are obtained. (1948)

The Hannah E. Longshore Memorial Medical Scholarship was founded by Mrs. Rudolph Blankenburg in memory of her mother by a gift of \$10,000. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school and may be renewed for each year of medical study. (1921)

The Jane V. Myers Memorial Medical Scholarship Fund of \$10,000 was established by Mrs. Rudolph Blankenburg in memory of her aunt. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)

The Harriet Judd Sartain Memorial Scholarship Fund was founded by bequest of \$21,013 under the will of Paul J. Sartain. The income from this fund is to establish a scholarship which is awarded to a member of the graduating class who in the judgment of the Faculty needs and is deserving of assistance for the study of medicine. This scholarship may be continued for the duration of her medical course. (1948)

Loan Funds

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

The committee in administering this money follows a definite policy which tries to serve the best interests of the students concerned. Loans may be used for any purpose approved by the committee but not more than \$500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed \$1,500. Students who wish loans may obtain from the Dean the necessary blanks, which must be accompanied by a letter of recommendation from the Dean. As a rule, money is not loaned to freshmen or to students in their first semester of graduate work. Applications, except in cases of emergency, must be filed before September 10. Approximately a month is required for action on applications.

The terms under which money is loaned are as liberal as is consistent with business-like principles. While the student is in College no interest is charged, but she may reduce the principal of the loan if she so desires; after the student leaves College, the interest rate is two per cent. The entire principal must be repaid within five years from the time the student leaves College at the rate of twenty per cent each year.

Contributions to the Loan Fund may be sent to the Chairman of Scholarships and Loan Fund, Bryn Mawr College Alumnae, Bryn Mawr, Pennsylvania. Students who wish to borrow from the Loan Fund may obtain application blanks for this purpose from the Alumnae Office, which is situated on the second floor of the Deanery.

The Mary Hill Swope Loan Fund was established June 1, 1945 by a gift of the late Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

1. The following order of preference shall be followed in awarding such loans:

- a. To students coming from New Jersey.
- b. To students coming from Missouri.
- c. To students coming from any other location who have had not less than one year residence at the College.

2. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn Mawr College, or by a Committee appointed by her from time to time.

3. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.

4. These loans shall be used primarily to enable the exceptional student to continue her studies which otherwise would be prevented through lack of means.

5. In the awarding of the loans, the recipient should understand that if in after years she is in a position to do so, she is to repay to the income account of the Loan Fund the amount so loaned to her, with or without interest. It is to be understood that this is entirely a moral obligation upon the recipient.

Student Employment

Students may obtain employment such as clerical and library work, typing, reading aloud, child care and waiting on table through the Bureau of Recommendations, Taylor Hall. In conducting this Bureau, the College offers an employment service for permanent, temporary and part-time positions to its alumnae and former students as well as to those in college. It also offers to students a vocational service, which includes vocational tests and assistance in choosing a vocation. Students registering with the Bureau will be informed of openings in the kind of work they have requested.

The Bureau also acts as a clearing house for letters of recommendation for its registrants; these letters will be sent upon request, to prospective employers and other agencies for summer work for undergraduates or for full or part-time employment for alumnae and former students.

Students of foreign citizenship wishing employment should consult the Adviser to Foreign Students whose office is in the Library.

Alumnae Representatives

All Alumnae officers and representatives will be glad to give general information about the College.

Specific questions in regard to admissions or scholarships should be directed to the Office of Admissions, Bryn Mawr College, Bryn Mawr, Penna.

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Mrs. David Morgan-Grenville,
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CHINA

Mrs. Walter C. Janney, Jr.,
72 Raceview Mansions, 46 Stubbs Road,
Hong Kong, B.C.C.

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Mrs. Harald Vestergaard,
Bagerstrasda 9, V, Copenhagen

ECUADOR

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c/o American Consulate, Guayaquil

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Mrs. James A. Cochrane, Woodmans Green
Farm, Linch, near Liphook, Hampshire
Mrs. Stanley Harper,
37 Clifford Road, London, S.S. 25
Mrs. Webster Plass,
c/o British Museum, London, W.C. 2

EGYPT

Miss Aida Gindy,
The United Nations, New York City
Mrs. Rushti Said,
The American University, Cairo

FRANCE	Mrs. Isabelle Maheu, 66 Rue de Vaugirard, Paris VI
GERMANY	Mrs. Hans Loening, Fischerhude Bei Bremen
GREECE	Miss Elizabeth Douli, Korae 18, Nea Smyrne, Athens
HOLLAND	Miss Sigrid de Vogel, 36 Van Ouwenlaan, The Hague
INDIA	Miss Harji Malik, c/o Lady T. S. Malik, Friends Colony, Mathure Road, New Delhi Mrs. Kalyani Raghavan, 4-B Pandara Road, New Delhi
ITALY	Mrs. Enrico Berra, 31 Via Gian Galeazzo, Milano
JAPAN	Miss Taki Fujita, No. 10, Venohara, Nakano, Tokyo Miss Ai Hoshino, 10 Uenohara-machi, Nakano-ku, Tokyo
MEXICO	Mrs. Arturo Gomez, Liverpool 149-2, Mexico City
NORWAY	Mrs. Harald Sommerfeldt, Hoffsveien 18, Skoyen, Oslo
PHILIPPINE ISLANDS	Mrs. Marcial Reyes, Jr., 7 Highway 54, San Francisco del Monte, Quezon City
TURKEY	Miss Suna Kili, Koybasi Caddes No. 295, Yenikoy, Istanbul Miss Afife Sayin, Spor Caddes No. 94, Besiktas, Istanbul
VENEZUELA	Mrs. Oscar Schnell, Apartado 516F, Caracas

Academic Schedule

1958 - 1959

1958

FIRST SEMESTER

- September 25.* Registration of entering undergraduate students
Deferred, condition and auditors' examinations begin
- September 26.* Registration period for graduate students begins
- September 27.* Deferred, condition and auditors' examinations
end
- September 28.* Registration of returning undergraduate students
with Comptroller's Office
- September 29.* Work of the 74th academic year begins at 8:45
A.M.
- October 1.* Hygiene exemption examination for Freshmen at
7:30 P.M.
- October 4.* Registration period for graduate students ends
- October 18.* Spanish and Italian examinations for under-
graduates, M.A. and Ph.D. candidates
Statistics examinations for M.A. candidates
- October 25.* German examinations for undergraduates, M.A.
and Ph.D. candidates
- November 1.* Russian examinations for undergraduates, M.A.
and Ph.D. candidates
Greek and Latin examinations for undergraduates
- November 8.* French examinations for undergraduates, M.A.
and Ph.D. candidates
- November 19.* Hygiene examination at 7:30 P.M.

1959

- January 10.* Spanish and Italian examinations for Seniors con-
ditioned, M.A. and Ph.D. candidates
Statistics examinations for M.A. candidates

- January 16.* Last day of lectures
January 17. German, Russian, Greek and Latin examinations for Seniors conditioned
German and Russian examinations for M.A. and Ph.D. candidates
January 19. Collegiate examinations begin
January 24. French examinations for Seniors conditioned, M.A. and Ph.D. candidates.
January 28. Registration period for graduate students begins
January 29. Collegiate examinations end

SECOND SEMESTER

- February 2.* Work of the second semester begins at 9 A.M.
February 7. Registration period for graduate students ends
April 7. Deferred examinations begin
April 10. Ph.D. dissertations in all fields except experimental science and mathematics must be submitted to the Graduate School office
April 11. Deferred examinations end
Spanish and Italian examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1960
April 18. German examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1960
April 25. Russian examinations for undergraduates, Ph.D., candidates, and M.A. candidates for 1960
Greek and Latin examinations for undergraduates
May 1. Ph.D. dissertations in experimental science and mathematics must be submitted to the Graduate School office
May 2. French examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1960
May 9. Statistics examinations for M.A. candidates for 1960
May 15. Last day of lectures
May 18. Collegiate examinations begin
May 29. Collegiate examinations end
June 2. Conferring of degrees and close of the 74th academic year

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How to Get to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

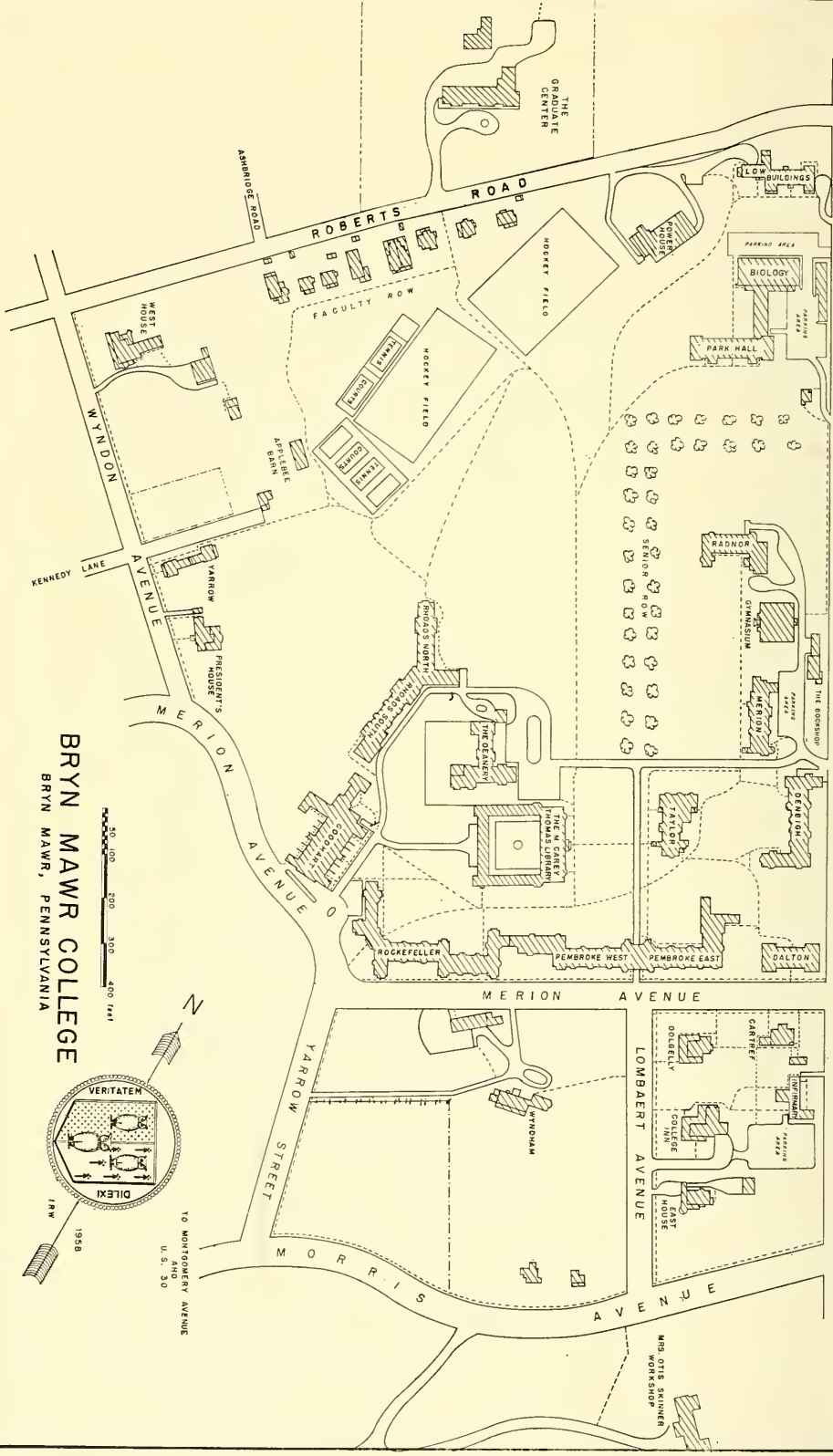
By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.

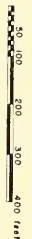
By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43), turning right at Pa. #23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues and take the next left (Yarrow Street), proceeding one block to the College, entering at Goodhart Hall gate on the right.

By air: Passengers arrive at the Philadelphia International Airport and can use the airport limousine to Philadelphia or take a taxi directly to Bryn Mawr, a distance of 14 miles.

OLD GULPH ROAD
 OLD 6
 MILLBAY
 NEW GULPH ROAD
 BIS NEW GULPH ROAD
 CAVERSHAM
 KEMERORE RD



BRYN MAWR COLLEGE BRYN MAWR, PENNSYLVANIA



TO MONTGOMERY AVENUE
 AND
 U. S. 30

BRYN MAWR

THE GRADUATE
DEPARTMENT OF
SOCIAL WORK AND
SOCIAL RESEARCH
OF BRYN MAWR COLLEGE

Bulletin of the
Carola Woerishoeffler
Graduate Department of
SOCIAL WORK
and
SOCIAL RESEARCH
of Bryn Mawr College
1957 - 1959

BRYN MAWR, PENNSYLVANIA

College Calendar

1957 - 1958

FIRST SEMESTER

1957

- | | | |
|-----------|-----|---|
| September | 28. | Graduate Center open to new graduate students at 9 A.M.
Registration period for graduate students begins |
| | 29. | Halls of residence open to all returning graduate and undergraduate students at 8 P.M. |
| October | 1. | Work of the 73rd academic year begins |
| | 5. | Registration period for graduate students ends |
| November | 27. | Thanksgiving holiday begins after last class and ends at 9 A.M. the following Monday |
| December | 20. | Christmas vacation begins at 12:45 P.M. |

1958

- | | | |
|---------|-----|--|
| January | 6. | Christmas vacation ends at 9 A.M. |
| | 17. | Last day of lectures |
| | 20. | Collegiate examinations begin |
| | 29. | Registration period for graduate students begins |
| | 31. | Collegiate examinations end |

SECOND SEMESTER

- | | | |
|----------|-----|---|
| February | 3. | Work of the second semester begins |
| | 8. | Registration period for graduate students ends |
| March | 28. | Spring vacation begins after last class |
| April | 8. | Spring vacation ends at 9 A.M. |
| May | 16. | Last day of lectures |
| | 19. | Collegiate examinations begin |
| | 30. | Collegiate examinations end |
| June | 3. | Conferring of degrees and close of the 73rd academic year |

The calendar of dates to be observed by students in Social Work varies in some instances from the College Calendar. Students will be informed of these dates early in September. Among the differences are the more limited vacation periods at Christmas and Easter for those students in casework and field work.

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The Trustees of Bryn Mawr College

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ALICE PALACHE JONES⁷

ELEANOR MARQUAND DELANOY⁸

AGNES CLEMENT INGERSOLL⁹

HILDA WORTHINGTON SMITH

Alumnae Director, 1952-1957

IDA LAUER DARROW¹⁰

Alumnae Director, 1953-1958

MARGARET NICHOLS HARDENBERGH¹¹

Alumnae Director, 1954-1959

MARY SIMPSON GOGGIN

Alumnae Director, 1955-1960

LELIA WOODRUFF STOKES¹²

Alumnae Director, 1956-1961

BARBARA COLBRON

Alumnae Director, Dec., 1957-1962

MARION EDWARDS PARK, *by invitation*

President Emeritus of Bryn Mawr College

NANCY HOUGH SMITH, *by invitation*¹³

President of the Alumnae Association

1. Mrs. Morgan Vining; 2. Mrs. Henry Goddard Leach; 3. Mrs. Samuel H. Paul;
4. Mrs. Rustin McIntosh; 5. Mrs. Talbot Aldrich; 6. Mrs. John D. Gordan, Jr.;
7. Mrs. Russell K. Jones; 8. Mrs. Douglas Delanoy; 9. Mrs. C. Jared Ingersoll;
10. Mrs. G. Potter Darrow, Jr.; 11. Mrs. Clarence M. Hardenbergh; 12. Mrs. Francis
J. Stokes; 13. Mrs. E. Baldwin Smith.

College Administration

President:

KATHARINE ELIZABETH MCBRIDE, PH.D., LL.D., L.H.D., SC.D.

Office: Taylor Hall.

Dean of the Graduate School: ELEANOR A. BLISS, SC.D.

Office: The Library.

Dean of the College: DOROTHY NEPPER MARSHALL, PH.D.

Office: Taylor Hall.

Director of the Graduate Department of Social Work and Social Research: KATHERINE D. K. LOWER, PH.D.

Office: Cartref.

College Physician: ELIZABETH HUMESTON, M.D.

Office: The Infirmary.

Director of Halls and Head Warden:

CHARLOTTE BRANDON HOWE, M.A.

Office: Rockefeller Hall.

Librarian: JANET MARGARET AGNEW, B.L.S., M.A.

Office: The Library.

Correspondence regarding admission to the Graduate Department of Social Work and Social Research should be addressed to the Director of the Department, Bryn Mawr College, Bryn Mawr, Pennsylvania.

Instructional Staff

CAROLA WOERISHOFFER GRADUATE DEPARTMENT of Social Work and Social Research

KATHERINE D. K. LOWER, PH.D., *Professor of Social Work and Social Research and Director of the Department*

HERTHA KRAUS, PH.D., *Associate Professor of Social Work and Social Research*

MARY MARGARET ZENDER, M.A., M.S.S., *Associate Professor of Social Work*

RUTH OLIVER STALLFORT, M.S., *Lecturer in Psychiatric Social Work*

GEORGE LEVINGER, PH.D., *Assistant Professor of Social Research*

MURIEL JANET GAYFORD, M.S.P.A., *Lecturer in Medical Social Work*

TERESA P. DOMANSKI, M.A., M.S.S., *Lecturer in Social Work*

DEMETRIUS IATRIDIS, PH.D., *Lecturer in Social Group Work*

WALTER C. KLINGENSMITH, M.D., *Special Lecturer in Medical Information*

ARTHUR NOYES, M.D., *Special Lecturer in Psychiatric Information*

ELEANOR ALICE STEELE, M.D., *Special Lecturer in Psychiatric Information*

ANDREW WATSON, M.D., *Special Lecturer in Psychiatric Information*

JEANNE L. WERNTZ, PH.D., *Special Lecturer in Social Research*

RACHEL DUNAWAY COX, PH.D., *Professor of Education and Psychology*

Introduction

THE CAROLA WOERISHOFFER GRADUATE DEPARTMENT of Social Work and Social Research offers professional education for practice in social work and for research. In addition to the basic two-year program leading to the degree of Master of Social Service, the advanced program leads to the degree of Doctor of Philosophy. In general, the program of the Department is intended for full-time study, but a few courses are open on a part-time basis to holders of a Master's degree in social work or its equivalent.

The curriculum of the Department is based upon the premise that preparation for social work requires a basic core of knowledge as well as skill in the application of this knowledge. A coordinated program of concurrent study and field work is therefore provided in the Master's degree program. The Ph.D. program is planned to broaden the student's knowledge of the field of social welfare, and, through intensive research, to deepen his knowledge in one field of specialization.

HISTORY OF THE DEPARTMENT

The Department was opened in the fall of 1915 in memory of Carola Woerishoffer, a graduate of Bryn Mawr College, who had devoted her brief life to improving social and working conditions and who, by her bequest to the College, made possible the introduction of new teaching and research in social welfare. The Department was called the Carola Woerishoffer Graduate Department of Social Economy and Social Research.

Under the first Director, Dr. Susan M. Kingsbury, four fields of study were initially offered—Social Casework, Community Organization, Industrial Relations, and Social and Industrial Investigation. As the curriculum became more specifically focussed on education for social work, certain fields of study, including Labor Economics, So-

ciology and Anthropology, were transferred to other Departments of the College.

The program leading to the Ph.D. degree was developed with the founding of the Department in 1915. In response to the growing recognition of social work as a profession the degree of Master of Social Service was substituted in 1947 for the Professional Certificate which had been granted up to this time to two-year students.

The Department was a charter member of the American Association of Schools of Social Work and is a constituent member of the Council on Social Work Education and, as such, is an accredited graduate school of social work. Since 1944, the Department has been approved to offer a concentration in medical social work and, since 1954, in psychiatric social work.

In 1939, about the time other Departments in the Bryn Mawr Graduate School were opened to men, men were first admitted as students in the Department of Social Work and Social Research.

The Department was first housed in the M. Carey Thomas Library. Because of its growth and special needs it was moved in 1951 to Cartref, at the corner of Merion Avenue and New Gulph Road, with the departmental library in an adjacent building. Plans for a larger building for the Department are now under way.

In 1957 the name of the Department was changed to the Graduate Department of Social Work and Social Research.

Admission

THE GRADUATE DEPARTMENT OF SOCIAL WORK AND SOCIAL RESEARCH at Bryn Mawr College is open to qualified graduates in liberal arts from colleges or universities of acknowledged standing. Application for admission, to be made to the Director of the Department, should be accompanied by a copy of the student's full academic record. Letters from the Dean and from two or more professors of the applicant's undergraduate college¹ will be requested by the Department. Whenever possible a personal interview is arranged. The Department may, at its discretion, require students whose preparation is insufficient to pursue certain introductory courses before being enrolled in a graduate course. Admission to the Graduate School does not automatically qualify a student to become a candidate for an advanced degree. Students whose courses of study meet the prerequisites may, on application to the Graduate Committee, be enrolled as candidates for the degrees of Master of Social Service or Doctor of Philosophy.

Men as well as women are admitted to the Graduate School and are accepted as candidates for the degrees of Master of Social Service and Doctor of Philosophy.

Within ten days after official admission to the Department of Social Work and Social Research, the Enrollment or Admission Fee of \$20 is to be paid to the Comptroller of Bryn Mawr College. The amount will be applied against the first semester tuition when the student reports for registration. It will not be refunded if the student withdraws after July 15th.

1. Graduate Record Examination. The Bryn Mawr Graduate School recognizes as contributory evidence of the qualifications of a student for admission a record of attainment in the Graduate Record Examination as prepared and administered by the Educational Testing Service. The examination is a convenient method by which a student may supplement transcript records. Applicants for admission to the Graduate School who wish to take the examination should apply directly to the Graduate Record Examination, P.O. Box 592, Princeton, N. J., where full information may be secured and arrangements for taking the test may be made.

TRANSFER CREDIT

A maximum of three units of graduate credit from an institution accredited by the Council on Social Work Education may be transferred and credited towards the M.S.S. degree upon recommendation of the Director of the Department. No transfer credit will be given until after the candidate has completed satisfactorily a semester at Bryn Mawr. All candidates for the degree of M.S.S. must spend at least one full year at Bryn Mawr.

For the Ph.D. degree, candidates must be in residence in the Graduate School at Bryn Mawr at least two years (or one year for Bryn Mawr graduates). Part of the work for the Ph.D. may be done at other institutions.

RECIPROCITY WITH THE UNIVERSITY OF PENNSYLVANIA

Courses at the University of Pennsylvania are available to graduate students at Bryn Mawr College. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr. The University charges a library fee of \$5.00 and a fee for late registration.

Program and Degrees

BRYN MAWR COLLEGE awards the degree of Master of Social Service and Doctor of Philosophy in the Department of Social Work and Social Research.

MASTER OF SOCIAL SERVICE

The program for the professional degree of M.S.S. is designed to prepare graduates for Social Casework and Social Research. Two academic years of full-time study are required. The degree represents the completion of a coordinated program of courses and field work. In the program in social casework, provision is made for concentration in the following specific fields: Child Welfare, Family Welfare, Medical and Psychiatric Social Work. It is planned to offer courses of study preparing for community organization and group work.

Prerequisites. The prerequisite for the M.S.S. degree is an A.B. degree or its equivalent from an American college of recognized standing, or a degree or certificate of the same standard from a foreign university. An undergraduate major in one of the social sciences is usually required, although in exceptional cases this requirement is waived. There are no language requirements for the M.S.S. degree.

PROGRAM OF WORK

The basic first-year program is the same for all students. The required courses include:

- Normal Growth and Behavior
- Pathology in Growth and Behavior
- The Social Services
- Legislation for Social Security
- Social Group Work I
- Social Research I
- Social Casework I, including Field Work

The courses in the second year are in part determined by the field of concentration of the student, that is, social casework or social research, and will be selected from the following:

Community Organization¹
Patterns of Behavior
Social Policy¹
Community Planning for Child Welfare
International Aspects of Social Welfare
Statistics
Social Casework II, including Field Work
Social Research II, including Field Work

REQUIREMENTS FOR DEGREE

Candidates for the M.S.S. degree must have completed a minimum of six units, including designated field work; they must prepare a Master's thesis and pass a Final Examination which tests their ability to place their special fields in the general background of social work.

DOCTOR OF PHILOSOPHY

The program leading to the Ph.D. degree is designed primarily for social workers who wish to prepare for teaching, research and administration in the broad field of social welfare. The curriculum for the Ph.D. degree includes work in the three following areas of study:

Social Welfare
The Social Sciences
Research Methods

The specific program of study is planned to meet the needs of the individual student, including course work in the Department of Social Work and Social Research and in other Departments of the Graduate School, which would usually be Psychology, Sociology and Anthropology, Economics, Education and Child Development, or Political Science. The major field will be selected from the fields of social welfare or research. The allied field or fields may be selected from social welfare or from the social sciences. No field work except that necessary for the dissertation is required in this program.

¹Required of all second-year students.

PREREQUISITES

In general applicants for the Ph.D. are expected to have a Master's degree or its equivalent in social work, and to have had at least two years of professional experience. Exceptions may be made.

The general requirements for the Ph.D. degree are:

1. An undergraduate preparation in major and allied fields which is satisfactory to the Department and to the Graduate Committee.

2. A course of study requiring a minimum, which will usually be exceeded, of three full years of graduate work in major and allied fields; two of these years (or for holders of the A.B. degree from Bryn Mawr College, one) must be spent in the Graduate School of Bryn Mawr College. Candidates are strongly advised to complete at least seven units of graduate work including five graduate courses. There are, however, no formal course requirements for students who have been accepted as candidates for the degree.

3. The acceptance of the student as a candidate by the Director of his or her work, by the Department and by the Graduate Committee.

4. A reading knowledge of French or German, tested by a written examination in the translation of texts in the field of the major subject.

5. A working knowledge of statistics. The specific statistics requirement may be met either by passing a written examination or by taking courses in statistics.

6. A satisfactory Preliminary Examination in the candidate's major and allied fields. This examination is intended to test the candidate's general knowledge of the fields rather than familiarity with particular courses.

7. The preparation of a dissertation judged to be a contribution worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject. It must contain new material, results or interpretations.

8. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

9. The publication of the dissertation in whole or in part in accordance with general regulations.

Courses of Study

EVERY GRADUATE STUDENT must register for courses at the office of the Dean of the Graduate School within two weeks after entering the College. Permission to make any change in registration must be received from the Dean of the Graduate School.

Only courses especially pertinent to the program in Social Work and Social Research are described in this Bulletin.

PROGRAM FOR THE MASTER OF SOCIAL SERVICE

The Social Services

The Social Services (first semester): Mr. Iatridis.

The developmental trends and present framework of welfare service organization to meet basic human needs. The scope and interrelationship of private and public welfare in the several major areas. Emphasis is placed on the philosophy underlying the social services today.

Legislation for Social Security (second semester): Miss Kraus.

Background and current provisions for social security, including income maintenance and other benefits and services in the areas of family and child welfare, health and housing. Trends and major issues.

Social Issues and Social Policy (second semester): Miss Kraus, Mrs. Lower and Visiting Lecturers.

Presentation of material from selected fields and consideration of its implications for social policy. Among the fields considered will be mental health, public health, law, housing and income maintenance.

International Aspects of Social Welfare (alternate years): Miss Kraus.

History, emergent principles and processes of international coopera-

tion for social welfare in different settings. Examination of cultural, economic and political factors affecting emergency services, migration and exchange programs, advisory services, and social and technical assistance to underdeveloped areas, with special emphasis on community development.

Community Planning for Child Welfare Services

(first or second semester) : Miss Kraus.

An examination of various approaches to the development of a comprehensive child welfare program. Implications for traditional services and their interaction.

Human Growth and Behavior

Normal Growth and Behavior (first semester) : Miss Gayford and
Special Lecturers.

The normal development of the individual as an integrated, functioning organism is presented by means of pertinent material from the fields of medicine, psychiatry, psychology and cultural anthropology. The emphasis is on the processes of adjustment throughout the stages of growth and the development of mechanisms for meeting physical and social stress.

Pathology in Growth and Behavior (second semester) : Miss Gayford
and Special
Lecturers.

This course deals with the abnormal conditions of physical and mental functioning, including physical illness with its associated social problems, and psychopathology in neuroses, character disorders and psychoses. Emphasis is placed on the social implications for treatment and prevention. A series of clinical demonstrations of patients at nearby general and psychiatric hospitals is given.

Patterns of Behavior (first semester) : Dr. Steele.

This course is designed to increase knowledge and understanding of dynamics of behavior. Psychoanalytic principles of diagnosis and treatment as they relate to casework practice are stressed.

Prerequisites: *Normal Growth and Behavior*, and *Pathology in Growth and Behavior*.

Social Work Practice

Social Casework I (first and second semesters) : Miss Zender and Miss Domanski.

A study of basic casework philosophy and principles and their application. The content includes the process of social study, diagnosis and treatment, methods in interviewing, establishing relationship, and use of community resources. This content is developed by class discussion of material introduced by the instructor and by the student from his field work. Field placements are in a variety of agency settings. Field work: 400 hours.

Social Casework II (first and second semesters): Mrs. Stallfort.

The aims of this course, required of all second-year casework students, are to expand and deepen diagnostic and treatment skills; to synthesize knowledge of individual field practice and theory; to stimulate understanding of settings different from those of the individual students. Generic casework principles are presented and, where appropriate, specifics of the setting and their influence on practice are delineated. A field placement in a family, child welfare, medical or psychiatric setting is an integral part of the course. In addition to a Case Book containing records representative of a variety of problems, age groups and settings, the student's own case material is used. Field work: 600 hours.

Social Group Work (second semester) : Mr. Iatridis.

A study of social group work principles aimed at broad understanding of the significance of group behavior and group experience. Social Group Work is considered in relation to other processes of social work practice such as casework, community organization and administration, with emphasis upon principles basic in the social work profession. No field work.

Community Organization (first semester) : Miss Kraus.

Introductory study of the process by which people of communities, as individual citizens or as representatives of groups, join together to determine social welfare needs, plan ways of meeting them and mobilize the necessary resources. Contributions of the professional worker to this process.

Social Research

Social Research I (first semester) : Mr. Levinger.

This course introduces the student to an understanding and appreciation of research. There is an emphasis on the principles and language of scientific method, and the design and execution of studies. A part of the course is devoted to statistics, data analysis, and the preparation of research reports.

Social Research II (first and second semesters) : Mrs. Lower and Mr. Levinger.

Examination of selected studies in social work and related fields with emphasis on different methodological approaches and methodological problems peculiar to research in social work. Prerequisite: *Social Research I*. Field work: 600 hours.

Thesis Seminar (first and second semesters) : Mr. Levinger and Mrs. Werntz.

A Master's thesis is required of all candidates for the M.S.S. degree. The thesis may be an individual or a group project; it usually requires the collection, analysis and presentation of primary data. Work on the thesis is coordinated in the thesis seminar which meets weekly during the first semester and less frequently during the second semester. No credit is given for this seminar.

PROGRAM FOR THE DOCTOR OF PHILOSOPHY¹

History of Social Welfare: Miss Kraus.

Principles and practices of the more important earlier methods of assisting the poor, the physically, mentally and socially handicapped. Impact of ideological and economic changes on the development of community facilities and services, both here and abroad.

Social Administration: Appointment to be announced.

Examination of the principles and processes of administration in social-work settings. The administrative organization of several types of social agencies, with emphasis on common and unique administrative problems in each.

Comparative Social Welfare: Miss Kraus.

A study of social welfare programs of selected countries, specifically of their legislative base, structure and major services in the areas of economic security, health, housing, child welfare, recreation, within the framework of different and changing national objectives.

Advanced Research Methods: Mr. Levinger.

The design of research and the contribution of behavioral sciences to research in social work.

Casework Supervision: Mrs. Stallfort.

This seminar is designed for supervisors who have not had previous formal education in supervision. In order to be admitted, a student must be engaged in supervision and must have the approval of his or her employing agency.

Social Welfare Planning: Miss Kraus.

An intensive study of selected areas of resource development under the impact of population trends, scientific progress and changing goals.

Critique of Research in Social Work: Mrs. Lower.

An examination of the role of research in social work with attention given to the different types of research as related to needs in this field. Specific studies will be reviewed and analyzed from the point of view both of method and of content.

¹All courses may be given in either the first or second semester in alternate years.

Courses in Related Departments in the Graduate School¹

(See Calendar of Graduate Courses for course descriptions.)

Economics

- Comparative Economic Systems
- The Development of Underdeveloped Areas
- Government and Business
- Labor and Management

Education and Child Development

- Advanced Clinical Evaluation
- Problems of Child Development
- Developmental Psychology

Political Science

- Problems of Public Administration

Psychology

- Learning Theory
- Psychological Methods in Industry
- Personality Theory
- Clinical Psychopathology
- Emotion and Motivation
- Social Psychology
- Advanced Statistics
- Research Methods in the Behavioral Sciences

Sociology and Anthropology

- Culture and Personality
- Sociological Theory
- Comparative Social Institutions
- Dynamics of Social Change
- Social Stratification and Minority Groups

Graduate courses at the University of Pennsylvania are also available for graduate students of Bryn Mawr College. For information regarding the reciprocal arrangement with the University, see the section under Admissions.

¹Courses to meet the Social Science requirement of the Department may be selected from two or more of these departments. Students must meet the requirements of the respective departments for admission to courses.

Field Work

FIELD WORK is an integral part of certain courses. For each student in these courses, field work is arranged in an established social agency of good standards to provide an experience in direct service to individuals or in research. The purpose of the field work is to supplement the class work, giving the student the opportunity to apply the knowledge gained in class and thus to deepen the knowledge and develop skill in its use. It is planned by the agency in such a way as to give content, sequence and progression in the assignments made to the students. The class sessions and the field work run concurrently in order to ensure an integration of the content of the two. Except in unusual circumstances, the student remains in the same agency during each year of field work.

The time allotted for field work practice is a minimum of 400 hours per year for first-year courses and 600 hours per year for second-year courses. In a typical program, this consists of field practice for first-year students of approximately 14 hours per week, from October through January, and 21 hours per week, from February through May; and for the second-year students, 21 hours per week for each of the two semesters. Individual arrangements may be worked out on the basis of agency and student needs.

The following agencies in Pennsylvania and New Jersey are in use as field work centers (1956-58):

Albert Einstein Medical Center, Philadelphia.

Allentown State Hospital, Allentown.

American Red Cross, Philadelphia.

Bryn Mawr College (Child Study Institute), Bryn Mawr.

Child Care Service of Delaware County, Media.

Child Study Center, Institute of Pennsylvania Hospital, Philadelphia.

Children's Aid Society of Pennsylvania, Philadelphia.
Eastern Pennsylvania Psychiatric Institute, Philadelphia.
Family Service of Delaware County, Media.
Family Service of Philadelphia, Philadelphia.
Germantown Settlement, Philadelphia.
Health and Welfare Council of Philadelphia.
Jewish Family Service, Philadelphia.
The Lighthouse, Philadelphia.
Lower Montgomery Family Service, Jenkintown.
Mercer County Child Guidance Center, Trenton.
Montgomery County Department of Public Assistance, Norristown.
Norristown State Hospital, Norristown.
Philadelphia General Hospital, Philadelphia.
Philadelphia Psychiatric Hospital, Philadelphia.
Philadelphia State Hospital, Philadelphia.
Protestant Episcopal City Mission, Philadelphia.
St. Christopher's Hospital, Philadelphia.
United Neighbors, Philadelphia.
University of Pennsylvania Hospital, Philadelphia.

Fees and Residence

FEES

THE TUITION FEE for graduate students is \$600 a year in 1957-1958, \$800 thereafter, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work in 1957-1958 the fee for each course, seminar, or unit of supervised work, is \$200 a year or \$100 a semester; after 1957-1958 the fee for each seminar, etc., will be \$300 a year.

Fees for auditors are the same as for students registered in courses for credit.

All students taking courses which require field work are charged a fee of \$10 a semester for each such course taken during the academic year. This fee covers a part of the expenses of field supervision. In addition students are required to meet their travelling and incidental expenses while working in the field during the academic year and vacations.

The graduation fee for Doctors of Philosophy, Masters of Arts and Masters of Social Service is \$20.00.

SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

Regular	1957-58	1958
Tuition Fee	\$600	\$800
Residence Fee at Graduate Center (including health service)	950 ¹	950 ¹
Contingent		
Dispensary Fee (for non-resident students)	15	15
Field Work Fee	20	20
Graduation Fee	20	20
Expenses, Christmas and spring vacations, commuting	variable	variable

¹Living expenses other than at the Graduate Center should be no higher than this amount.

Students whose fees are not paid before November 1st in the first semester and before March 1st in the second will not be permitted to continue in residence or to attend their classes. No reduction of the tuition fee will be made on account of absence or dismissal or for any other reason.

The Office of the Recorder will supply on request one transcript of the record of each graduate student free of charge. For additional transcripts a charge of \$1.00 each will be made.

THE GRADUATE CENTER

RESIDENCE for forty-five graduate students is provided in the Graduate Center, which lies at the north end of the campus about an eight-minute walk from the Library and a fifteen-minute walk from the Pennsylvania Railroad Station in the town of Bryn Mawr. There is a separate room for each student; meals and health service are included in the residence charge.

Besides housing forty-five students, the Graduate Center is the headquarters of the Graduate Club, the nucleus of the social life of the Graduate School. The Center's public rooms — a large living room and the Manning-Smith recreation room — are available to all members of the Club. The dining room, which seats sixty, is open to non-resident students living outside the Center who wish to lunch or dine there. For the residents there are smoking rooms and tea pantries. The bedrooms are fully furnished except for curtains. Bed linen, including blankets, is provided but students should bring their own towels. Because of College fire regulations, smoking is not permitted in the bedrooms.

Application for a room should be made as early as possible. A room-contract, which will be sent on request, must be signed and returned, with the registration fee of ten dollars, to the Dean of the Graduate School. The amount of this fee will be deducted from the residence fee. The registration fee will not be refunded under any circumstances. A student in residence or a new student who cancels her reservation after September 1st prevents some other student from obtaining accommodation. Therefore, unless a student sends notice of

withdrawal in writing to the Dean of the Graduate School before September 1st, she is responsible for that portion of the residence charge which the College loses by reason of her withdrawal, whether she fails to occupy the room at all or vacates it during the year. Appropriate reduction or remission is made for that portion of the residence fee which represents reduced expense to the College for food; a further remission of reduction is made if the College is able to re-assign the student's room to some other student not previously in residence. The student herself is not entitled to dispose of the room she leaves vacant. In cases of absence from the College extending over six weeks or more, owing to illness, there will be a proportionate reduction in the charge for the cost of food.

The regular charge for residence (room, board and health service) for graduate students is \$950 a year, payable one half early in the first semester and the other half early in the second semester.

Residence in the Graduate Center is for the academic year only — from the opening of college until Commencement Day. All college residence halls are closed during the Christmas vacation but accommodations in the neighborhood can usually be secured by graduate students who are required to continue their work. During the spring vacation one hall of residence is kept open and graduate students may occupy rooms in it at a fixed rate. Baggage will not be accepted at the College before September 15th. It should be sent prepaid, addressed to the Graduate Center.

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

Student and Alumni Organizations

GRADUATE CLUB

ALL RESIDENT STUDENTS in the Graduate School are members of the Graduate Club and non-residents may become members. The organization of the life of the graduate student in all matters not purely academic or affecting hall management is in the hands of the Club. The President of the Graduate Club is a member of the College Council, a non-legislative body which meets periodically to discuss matters concerning the college as a whole. The Council of the Graduate Club considers policies relating particularly to the Graduate School.

STUDENT ORGANIZATION

ALL FULL-TIME AND PART-TIME STUDENTS in the Department of Social Work and Social Research are eligible to membership in the Student Organization. The organization is concerned with the many phases of student life, such as social gatherings, special events, administration of student lounge, self-regulation of Reading Room and other student needs. The Student Organization and Faculty work closely together to promote the objectives of the Department.

ALUMNI ASSOCIATION

THE ALUMNI ASSOCIATION of the Department was organized to further the development of the Department and its alumni. Activities of the Association include an annual reception in honor of cooperating agencies and student supervisors, an institute for alumni and practicing social workers in the community, a spring breakfast for students to be awarded the M.S.S. or the Ph.D. In addition, the Association makes available the Alumni Tuition Scholarship, to which applicants for admission from the Philadelphia area are eligible.

Present officers are:

MISS ELIZABETH M. ROBINSON, *President*

MISS ROSE C. MENNIG, *Vice President*

MISS CHARLOTTE J. NORVELL, *Treasurer*

MRS. EDWARD P. HOLLINGSWORTH, *Corresponding Secretary*

SISTER ELEANOR JAMIESON, *Recording Secretary*

Fellowships and Scholarships

BRYN MAWR COLLEGE OFFERS fellowships, resident and non-resident scholarships to women, and a research assistantship to both men and women students in the Department of Social Work and Social Research. In addition, scholarships are offered by various agencies in the Philadelphia vicinity to graduate students preparing for social work. Students enrolled in the Department are also eligible to apply for scholarships and educational stipends available through national and state agencies, both governmental and voluntary.

Applications for resident fellowships and scholarships should be made to the Director of the Department of Social Work and must be filed not later than February 1st preceding the academic year for which they are desired. Blanks are forwarded to all applicants. Awards are announced each year on April 1st. Original papers and photographs, sent by applicants in support of their applications, can be returned only if postage is enclosed for that purpose, or specific instructions are given for return by express. Letters from professors and instructors and other individuals are filed for reference.

Susan M. Kingsbury Research Assistantship: A research assistantship of the value of \$1,200 with remission of tuition will be granted to an advanced student, preferably a candidate for the degree of Doctor of Philosophy, who from either training or experience has knowledge of methods and techniques in social research. The holder of the Assistantship will give half time to the research of the Department, and half time to study and is not permitted to hold any other paid position.

Carola Woerishoffer Memorial Fellowship: A fellowship, either resident or non-resident, of the value of \$1850¹ is offered annually to women students who are citizens of the United States or Canada. This is awarded on the ground of excellence in scholarship to a candidate who has completed at least one full year of graduate work at a college of recognized standing. Holders of Fellowships are not permitted to teach or to hold paid positions.

¹The value of the Fellowship will be increased after 1957-1958 to \$2050.

The Susan M. Kingsbury Research Grant in Social Research, value \$300, is awarded every third year on the recommendation of the Director of the Graduate Department of Social Work and Social Research to advanced students, preferably candidates for the degree of Doctor of Philosophy. Women holding this grant may live in the Graduate Center.

A Teaching Assistantship in Social Work and Social Research provides a stipend of \$950 plus two-thirds tuition. The assistant will be expected to carry out assignments related to the teaching program not to exceed twelve hours a week, or one-third time. He or she may carry two full units in the remaining two-thirds time. This assistantship is suitable for a student working towards the Ph.D.

The Carola Woerishoffer Scholarship in Social Work and Social Research, of \$1150², is offered annually to a student in the Department of Social Work. First-year students will reside in the Graduate Center; second-year students may elect to live elsewhere.

Agency Fellowships and Stipends. A number of scholarships or stipends ranging in value from \$500 to \$2400 are offered through the Department by various agencies in Philadelphia and vicinity to second-year graduate students, men and women, who wish to be candidates for the degree of Master of Social Service. These agency scholarships and fellowships frequently call for field work placement in the agency giving the grant, and in some cases require an agreement relative to employment for one year following the holding of a grant.

Federal Stipends. The United States Public Health Service offers traineeships of \$1800 for first-year students, and \$2000 for second-year students, both men and women. The holders of such stipends must have career objectives in psychiatric social work.

The Office of Vocational Rehabilitation offers traineeships of \$1800 and \$2000 for first- and second-year students respectively. Holders of such stipends must have career objectives in rehabilitation.

Traineeships of \$2800 for the third year and \$3400 for the fourth year of study are also available from the United States Public Health Service to advanced students who meet certain requirements and are beginning work for the Ph.D. Application to the Department for such traineeships is necessary by November 1st of the year preceding the proposed year of study.

²The value of the Scholarship will be increased after 1957-1958 to \$1350.

Both local agency stipends and Federal traineeships are awarded to the student by the Department.

The Alumni Association of the Graduate Department of Social Work and Social Research usually provides a tuition scholarship open to either first or second-year students.

GENERAL COLLEGE SCHOLARSHIPS

In addition to the fellowships and scholarships available only to students in the Graduate Department of Social Work are some scholarships which are open to women students in all departments.

Twenty *Resident Graduate Scholarships*, value \$1,150¹ each, are offered annually in open competition to women students who are graduates of colleges of good standing. In rare cases applicants for these scholarships may, on the basis of financial need, be given a supplementary grant not to exceed \$300.

Six *Non-Resident Tuition Scholarships*, value \$600² each, are offered annually to women graduate students whose homes are in the vicinity of the College.

GRADUATE PRIZE

The Susan B. Anthony Memorial Prize, value \$500, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered every two years to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by a committee of which the President of the College is chairman.

Loan Funds

The Bertha Goldstein Memorial Loan Fund, established in honor of Bertha Goldstein, A.B. 1938 and M.A. 1939, is a revolving fund from which, upon recommendation of the Department of Social Work

¹The value of the Graduate Scholarship awards will be increased after 1957-1958 to \$1350.

²The value of the Tuition Scholarships will be increased after 1957-1958 to \$800.

and Social Research, a limited number of loans, not exceeding \$150, may be made to graduate students of Social Work and Social Research. Loans are made without interest and must be repaid within five years.

The Ethel Rupert Memorial Loan Fund was established in 1951 by the friends of Ethel Rupert to commemorate her long interest in the preparation of personnel in public welfare. It is a revolving fund from which small loans and transportation scholarships are made to graduate students in the Department of Social Work and Social Research, at the discretion of the Department.

The Rachel Pflaum Memorial Loan Fund, established in 1926 in memory of Rachel Pflaum, and transferred to Bryn Mawr College in 1951, is a revolving fund from which loans, not to exceed \$200, for tuition purposes may be made to students who are recommended by the Director of the Department of Social Work and Social Research.

The Carola Woerishoffer Club Fund is a small revolving fund from which loans may be made to students in the Department of Social Work and Social Research.

The Library

THE M. CAREY THOMAS LIBRARY now contains over a quarter of a million volumes. The Library has a good working collection in all fields in which graduate study is offered. The collection includes files and current numbers of about one thousand periodicals published in the United States and abroad.

The open shelf system provides the maximum of free access to the stacks so that almost all books except those in the Rare Book Room are directly available to the students. The Reference Room and Periodical Room provide ready access to standard works of reference.

Provision is made in the Quita Woodward Memorial Room for books for pleasure or recreational reading. This collection, now numbering more than two thousand volumes, includes books in literature, art, religion, and current affairs as well as many of the classics.

Other facilities available to graduate students are the rich resources in the libraries of the Philadelphia area. Through the services of the Union Library Catalogue at the University of Pennsylvania, volumes in over 300 libraries within the area may be easily located. The Philadelphia Bibliographical Center and Union Library Catalogue has recorded over 3,500,000 titles in the region by which research workers are aided in bibliographical problems outside the scope of any one library. Through this channel the great collections of the University of Pennsylvania, the Free Library of Philadelphia, the Historical Society of Pennsylvania as well as the Library Company of Philadelphia, the American Philosophical Society, the Franklin Institute, the Academy of Natural Sciences, the College of Physicians, Haverford College, Swarthmore College and Temple University are made available. Graduate students who wish to use other libraries for purposes of reference may secure letters of introduction from the Bryn Mawr librarian.

The Department of Social Work and Social Research has its own Reading Room, housed in the Pagoda. A small collection of books currently in use in seminars has been made available on permanent loan from the M. Carey Thomas Library. Periodicals and pamphlet material in the field of social welfare are included in the collection.

Health

EVERY GRADUATE STUDENT whether resident or non-resident must file a physician's certificate stating that he or she has been vaccinated against smallpox during the year before entrance to the Graduate School and that he or she exhibited a typical or immune reaction to this vaccination. Students who do not certify to vaccination will be vaccinated at the time of their entrance physical examinations and charged a fee of two dollars. There is no exception to this rule.

Every applicant to the Department is required to file at the time of application, on a blank supplied by the Department, a report of a recent medical examination, filled in and signed by a physician.

Resident students must present on a separate blank a statement of immunization against tetanus by toxoid and of evidence of a negative Schick test, or immunization against diphtheria, both within one year of entrance. If these have not been done by the time the student arrives in Bryn Mawr, these tests will be done at the time of the initial physical examination at a fee of one dollar for each test.

Every resident graduate student must file a certificate stating that her eyes have been examined by an ophthalmologist within six months before entrance in the Graduate School. Failure to comply with the above rule entails an examination by one of the college consultants for which the student will be charged as a private patient by the ophthalmologist who makes the examination.

Every resident graduate student must have a chest X-ray film at the beginning of each year. These 70 mm. photofluorographic films are made free of charge by the Bureau of Tuberculosis Control, Commonwealth of Pennsylvania Department of Health. If necessary, the plate is checked by a flat chest plate at Bryn Mawr Hospital. The student is charged for this at the prevailing private patient rates of the hospital.

Every entering resident graduate student is examined by the Physician of the College, with reference to physical development and

general health. Second and third-year residents whose health records have been approved by the College Physician are not examined. Any graduate student who at the time of the examination or at any time during the year is not in good health is placed on the health supervision list.

The College Physician is in her office in the college infirmary daily and may be consulted by the students without charge. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The fees of the consulting physicians and surgeons and other specialists recommended by the College will be furnished on request. The infirmary is open when college is in session and during the spring vacation. It is closed during the Christmas vacation.

The residence charge paid by each resident graduate student entitles her to free consultation with the College Physician and College Psychiatrists and to treatment in the college dispensary. It also entitles her to be cared for in the infirmary for seven days (not necessarily consecutive) during the year, to attendance by the College Physician during this time and to nursing, provided her illness is not contagious and is not sufficiently serious to require the services of a special nurse. The fee for each day in the infirmary after the seven-day period is seven dollars. In case of contagious disease special nursing is obligatory and the student must meet this expense.

For non-resident graduate students the non-resident infirmary fee of fifteen dollars entitles them to care and consultations by the College Physicians and Psychiatrists, and to dispensary care. All may also take the opportunity of having a free chest X-ray when the college X-ray survey is made in the autumn. *Since non-resident students cannot be given bed care in the infirmary, they are urged to take out hospital insurance.*

1957

Doctor of Philosophy

BERNICE J. GOODSITT of Philadelphia, Pennsylvania

A.B. University of Chicago 1938; M.S.W. Tulane University School
of Social Work 1941

Master of Social Service

MICHELE CLAUDE ANGUENOT of Besançon, France

Diplôme d'Infirmière, Ecole de la Croix, St. Simon, 1950 and
Diplôme d'Assistante Sociale 1955

UVELIA SYLVATIA A. BOWEN of Philadelphia, Pennsylvania

A.B. Virginia Union University 1945

MERLE BROBERG of Minneapolis, Minnesota

A.B. University of Minnesota 1949

MARJORIE ELIZABETH DUCKREY of Philadelphia, Pennsylvania

A.B. Shaw University 1937

IRMA MAY FRITSCHMAN of Havertown, Pennsylvania

A.B. Colby College 1950

FLORENCE SARPETA HOLMES of Catasauqua, Pennsylvania

A.B. University of Rochester 1927; M.A. Cornell University 1943

VALERIE LEONORE JACKSIER of Easton, Pennsylvania

B.S. University of Pittsburgh 1955

ANNA KYRIAZAKI MILLER of Athens, Greece

A.B. Ohio University 1955

CLARA S. MILLER of Philadelphia, Pennsylvania

A.B. University of Pennsylvania 1955

ELIZABETH BUNN MURPHEY of Washington, D. C.

A.B. Swarthmore College 1955

AINA OZOLINS NUCHO of Riga, Latvia

A.B. St. Olaf's College 1950

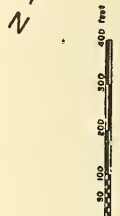
JOHN D. O'HARA, JR. of Philadelphia, Pennsylvania

A.B. Maryknoll College 1949

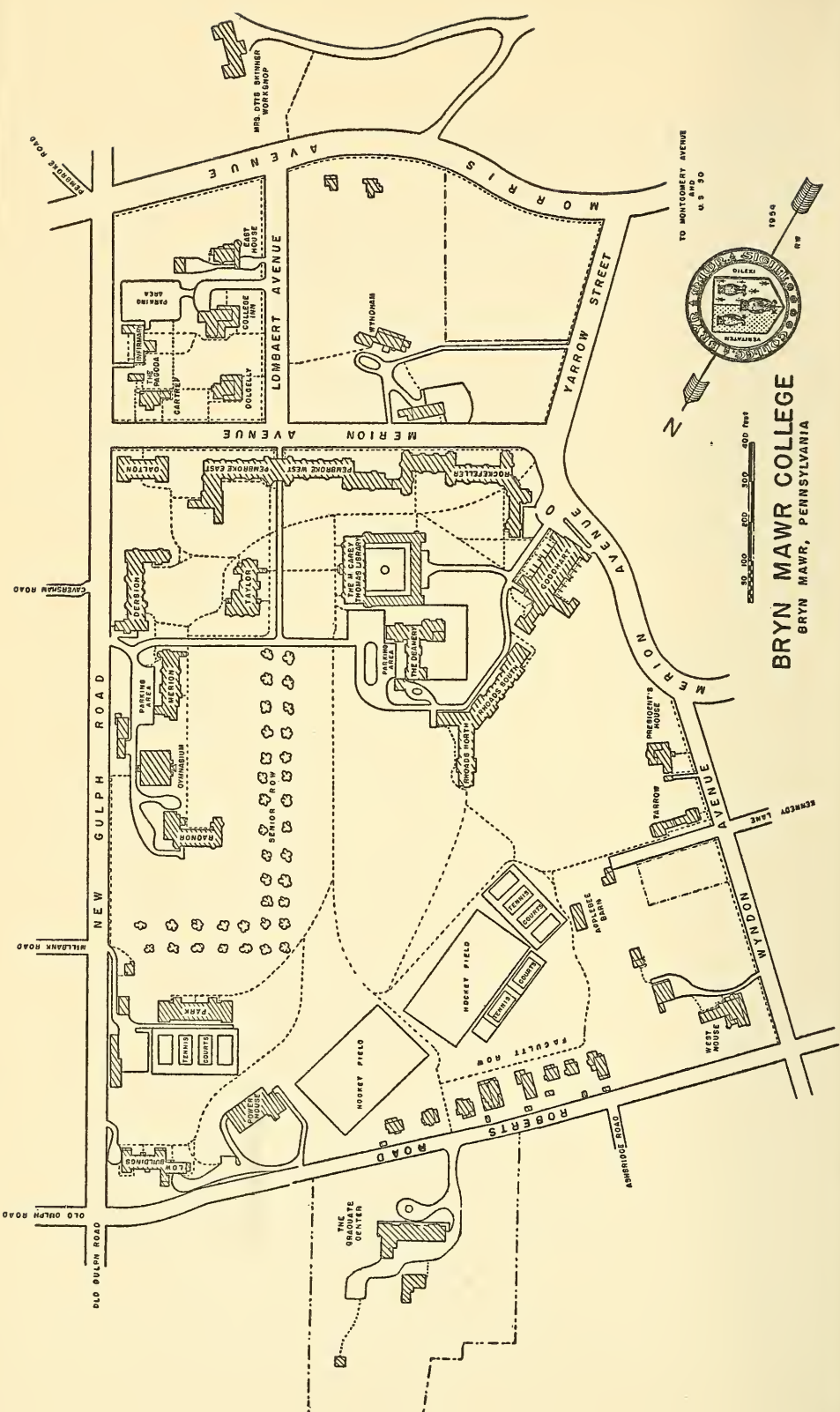
NADJA DEBBIE PATS of Philadelphia, Pennsylvania

B.S. University of Maryland 1951

- ROBERT EDNA ROBINSON of Middletown, Ohio
A.B. Ohio State University 1953
- MARY ANN SIMMENDINGER SHANNON of Philadelphia, Pennsylvania
A.B. Ursinus College 1953
- JEAN HELEN SPARKMAN of Philadelphia, Pennsylvania
B.S. Temple University 1955
- RAYMOND MARYN STEINBERG of Pittsburgh, Pennsylvania
A.B. University of Pennsylvania 1946
- KATHLEEN CORLIES TATNALL of Philadelphia, Pennsylvania
A.B. Denison University 1955
- ADRIENNE JOANNE VALENTINE of Philadelphia, Pennsylvania
A.B. Temple University 1955
- ROBERT E. YOUNG of Philadelphia, Pennsylvania
A.B. Pennsylvania State University 1953



BRYN MAWR COLLEGE
BRYN MAWR, PENNSYLVANIA



How to Get to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. No. 43), turning right at Pa. No. 23, which is 3.5 miles east of the toll gate; continue into Alternate No. 23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues and take the next left (Yarrow Street), proceeding one block to the College.

By air: Passengers arrive at the Philadelphia International Airport and can use the airport limousine to 30th Street Station in Philadelphia or take a taxi directly to Bryn Mawr, a distance of 14 miles.

BRYN MAWR, PENNSYLVANIA

Wm. H. H. H.
1888



